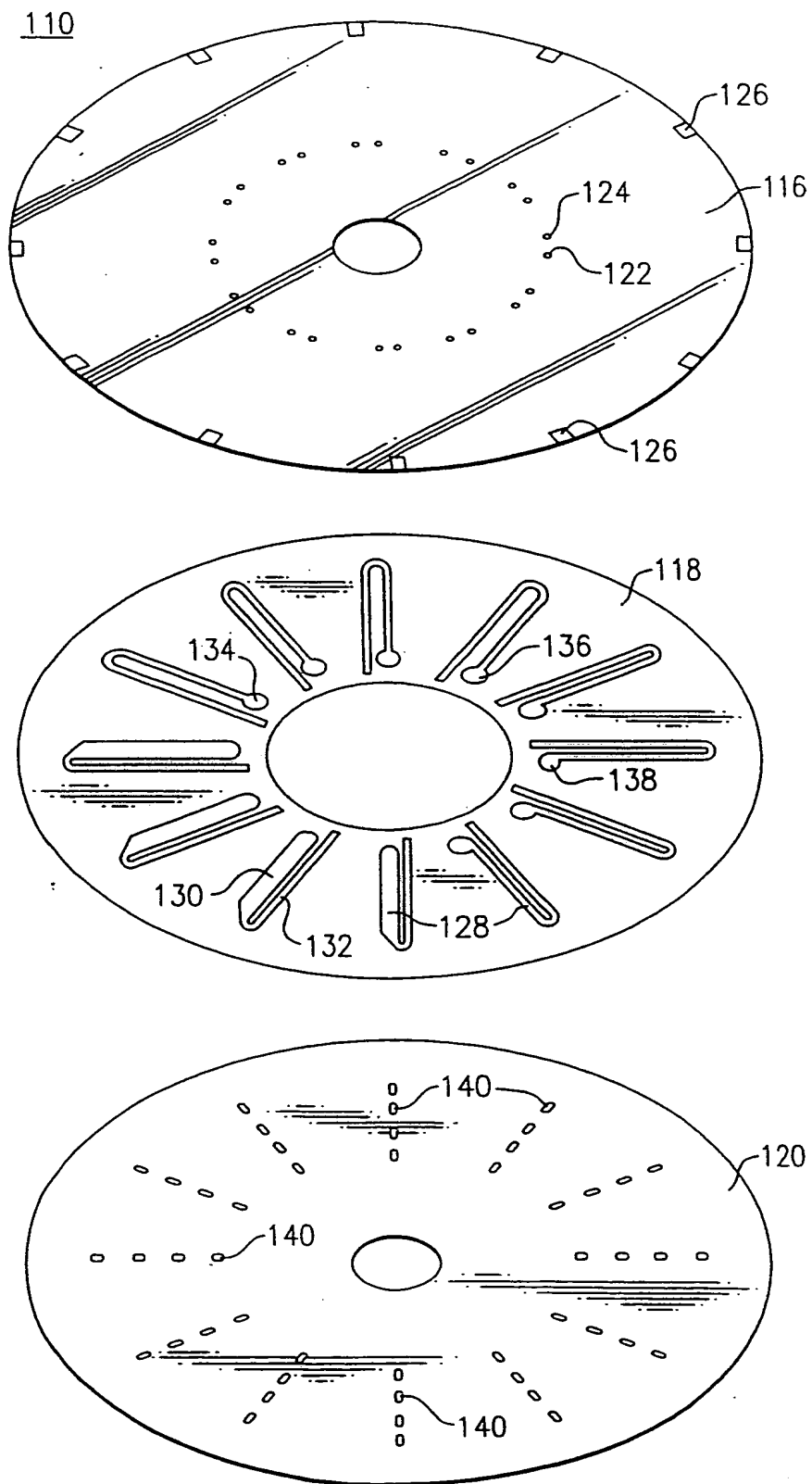


FIG. 1

FIG. 2



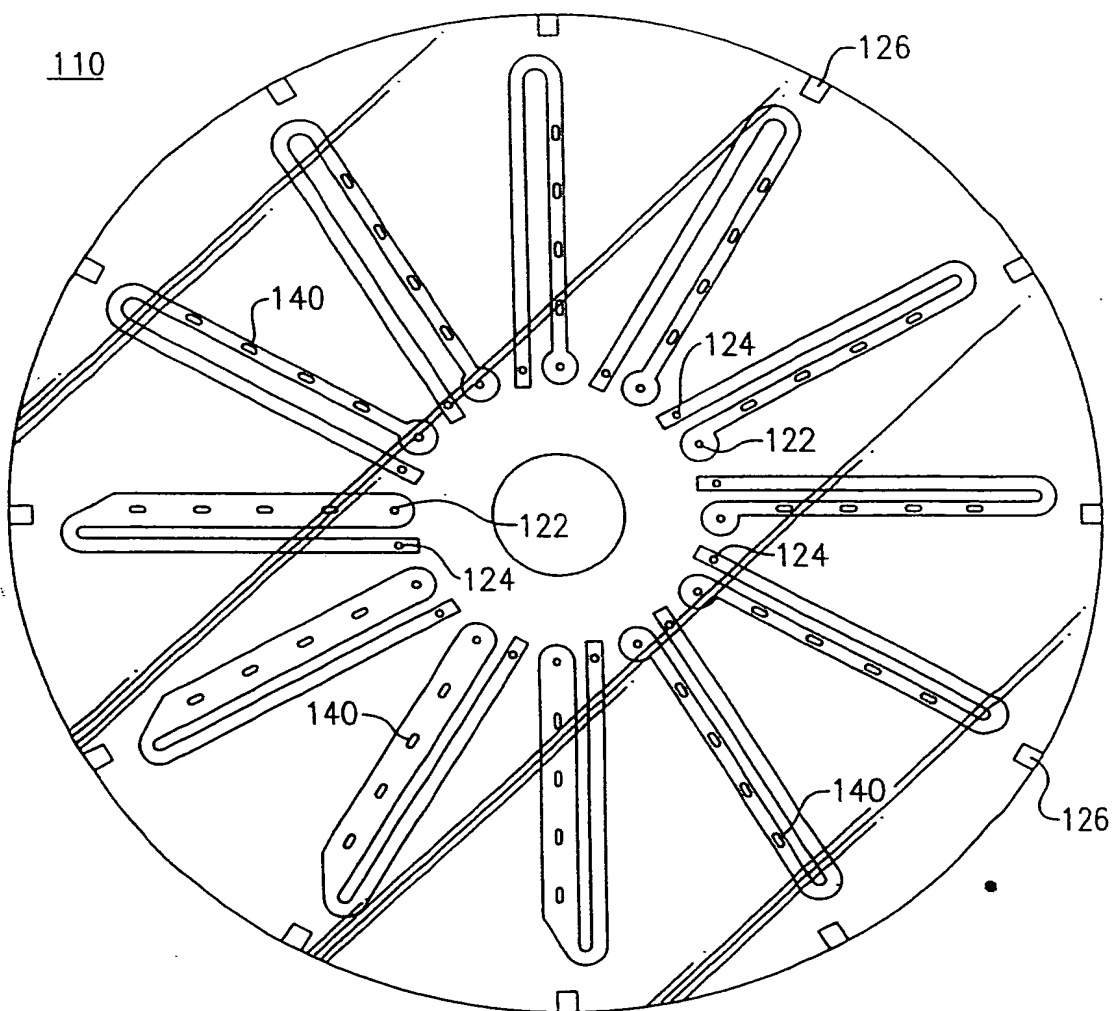


FIG.3

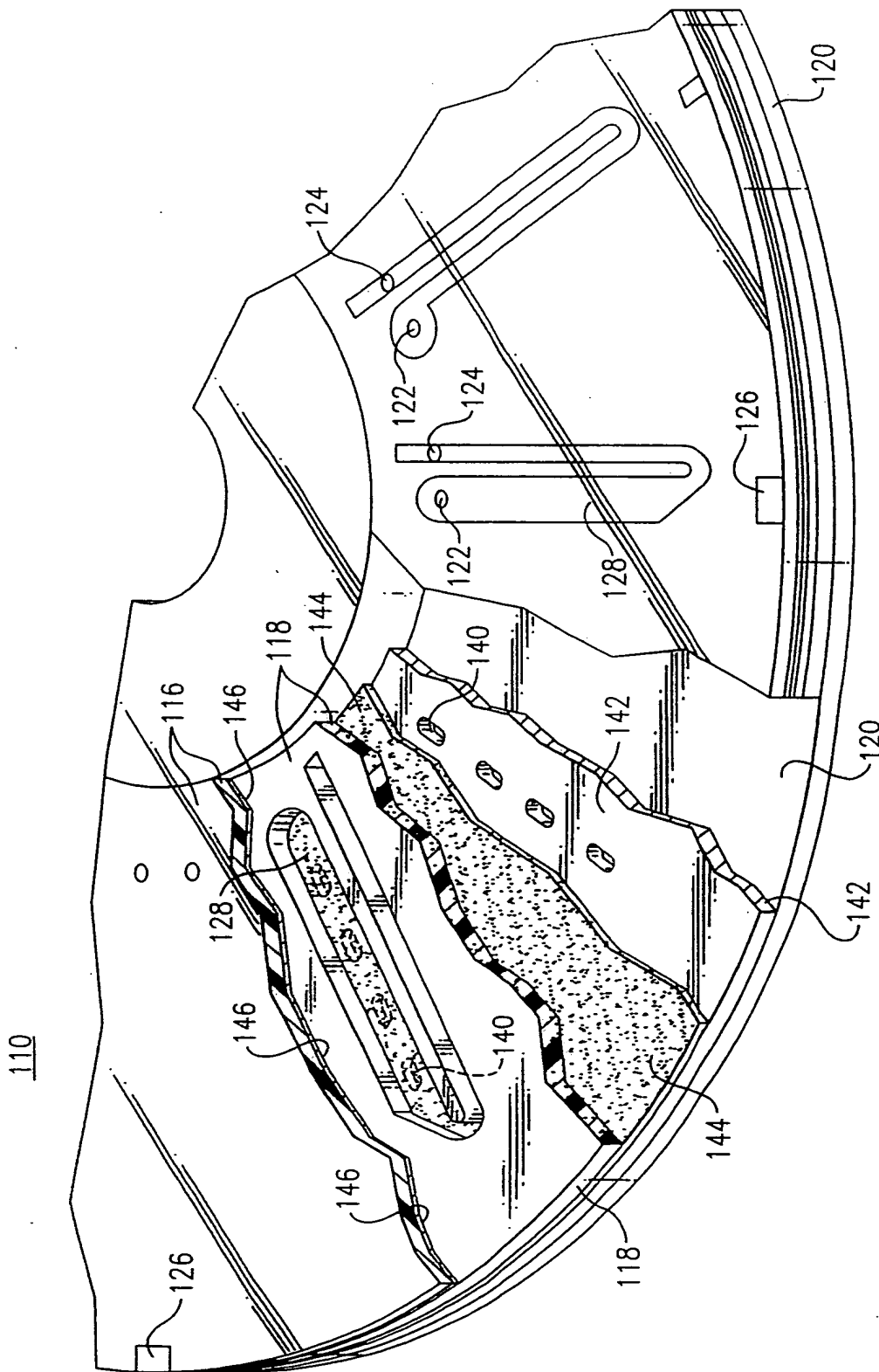
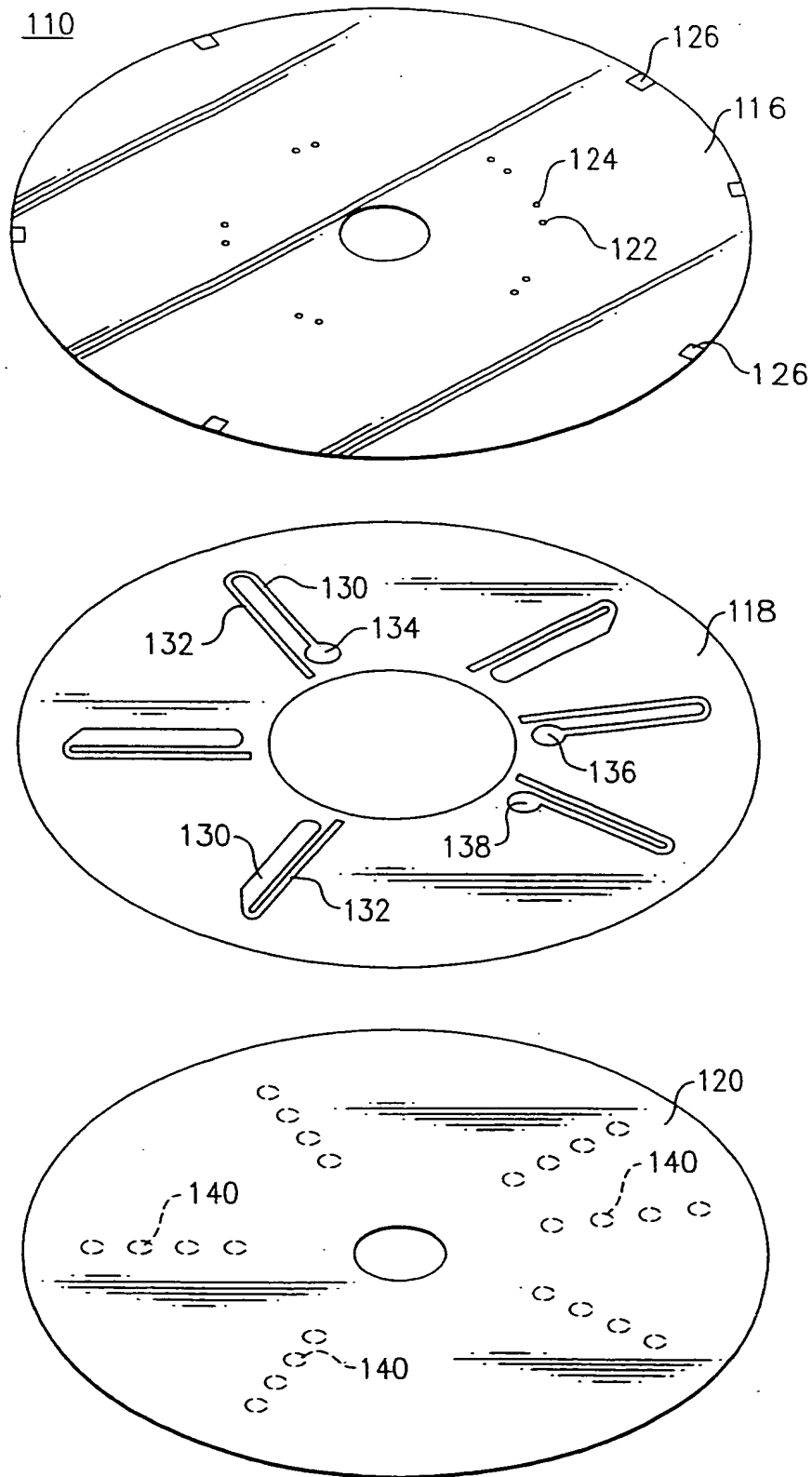
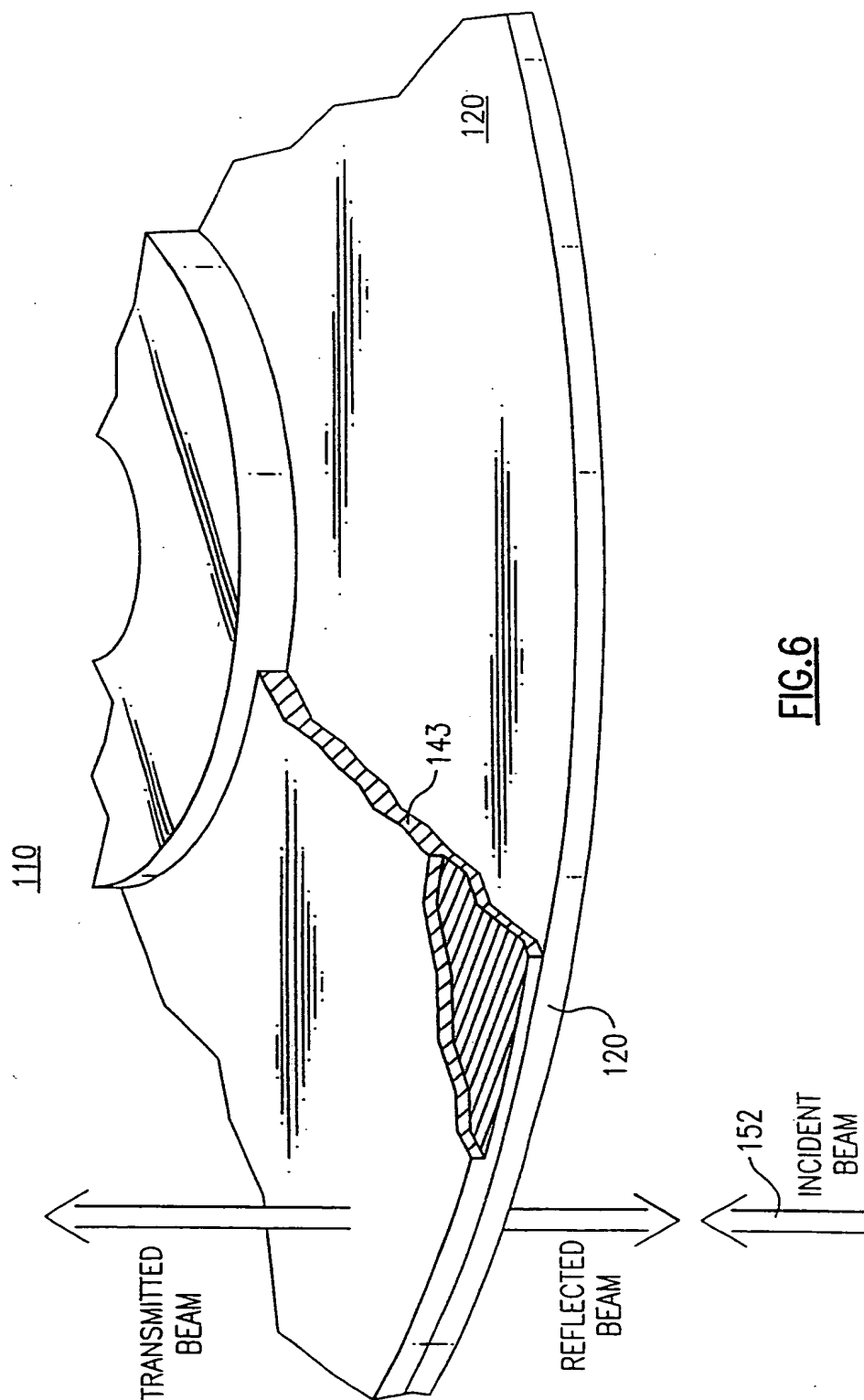


FIG. 4

FIG. 5





OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
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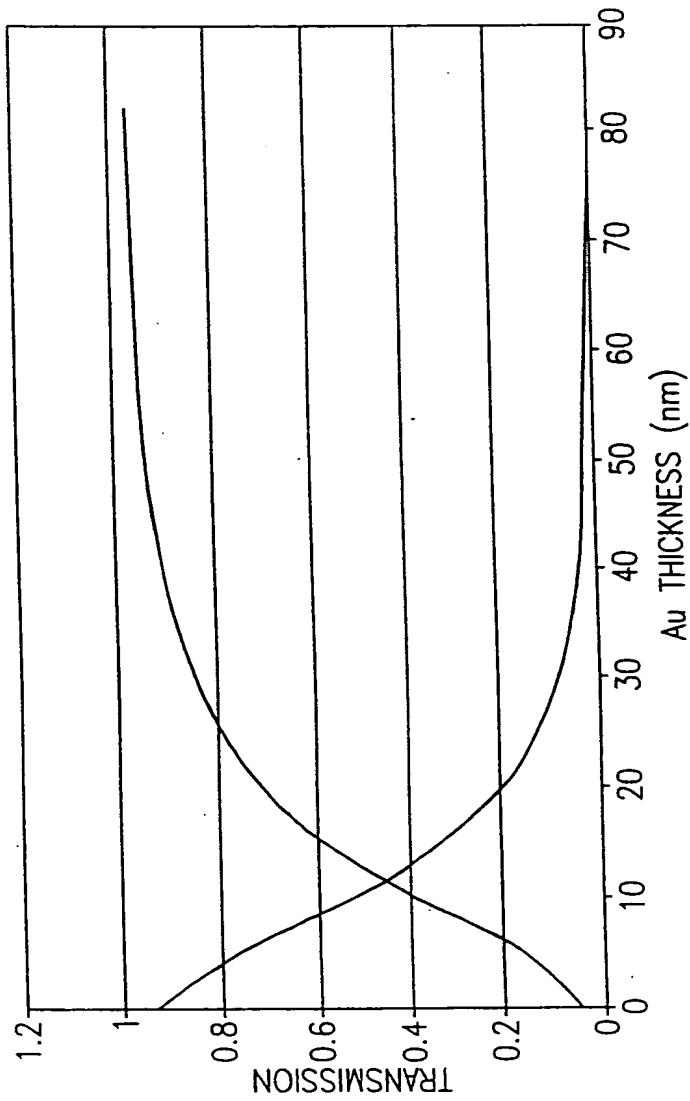


FIG. 7

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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Appl. No.: Unknown Atty Docket: NAGACO.215A

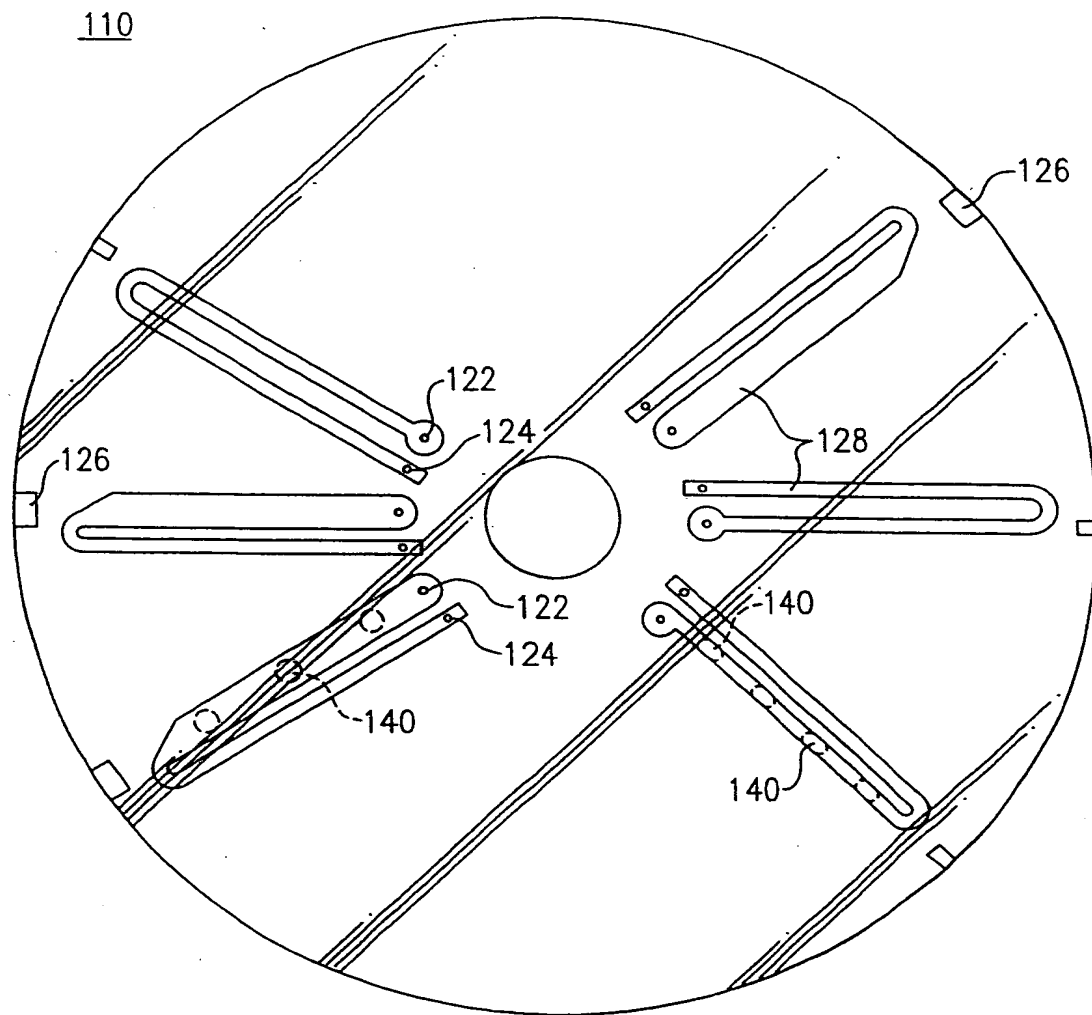


FIG.8

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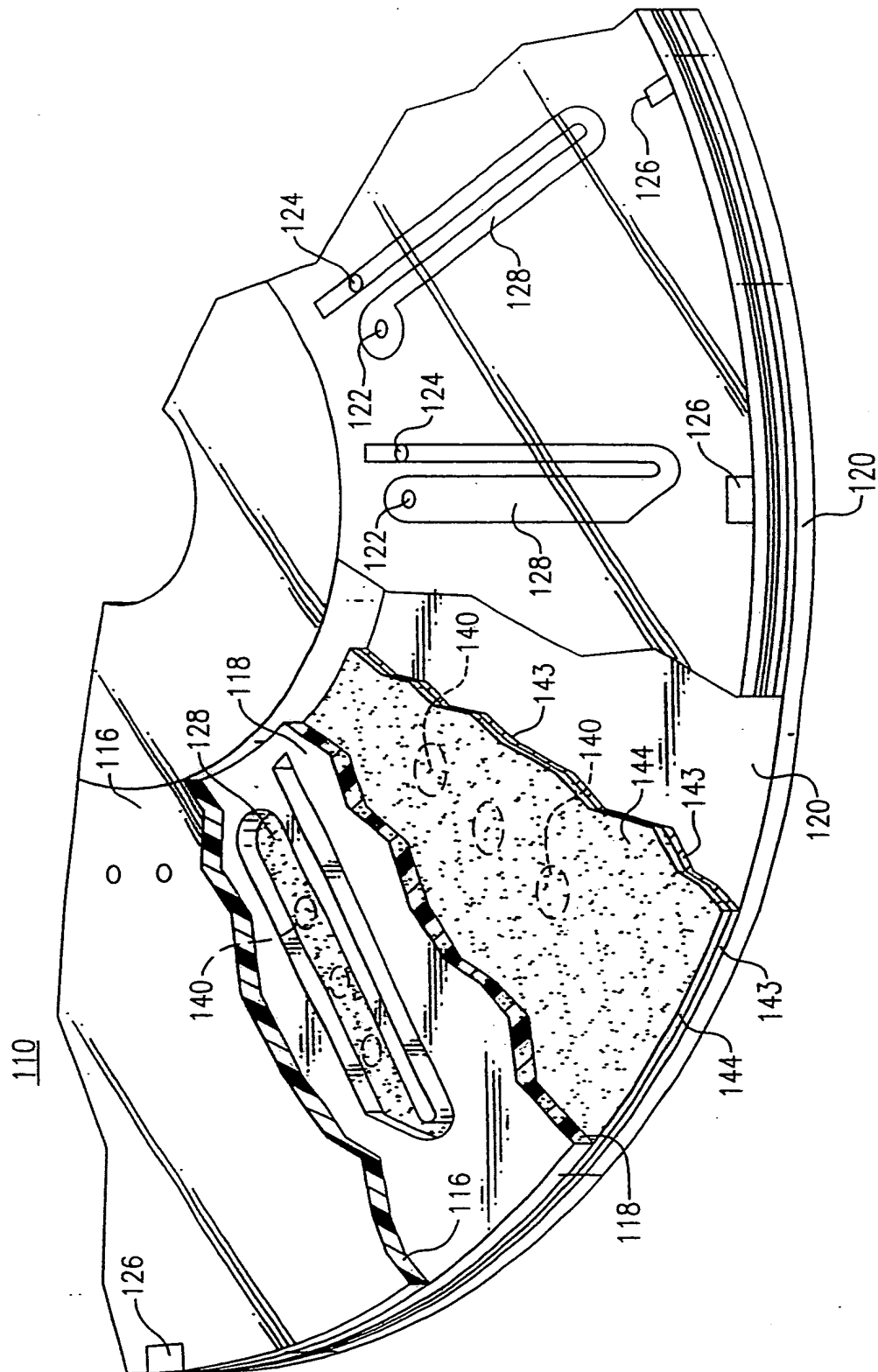


FIG. 9

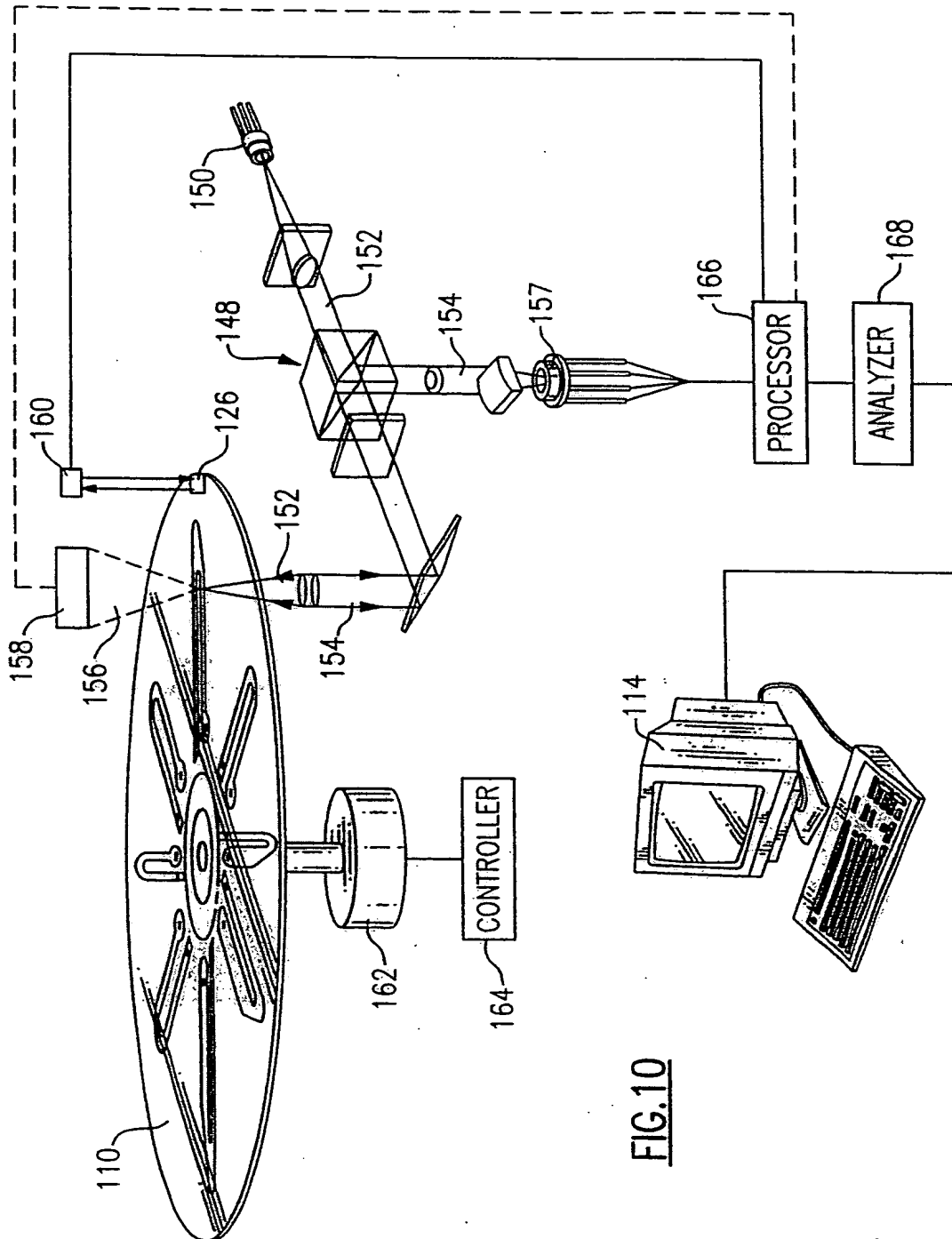


FIG.10

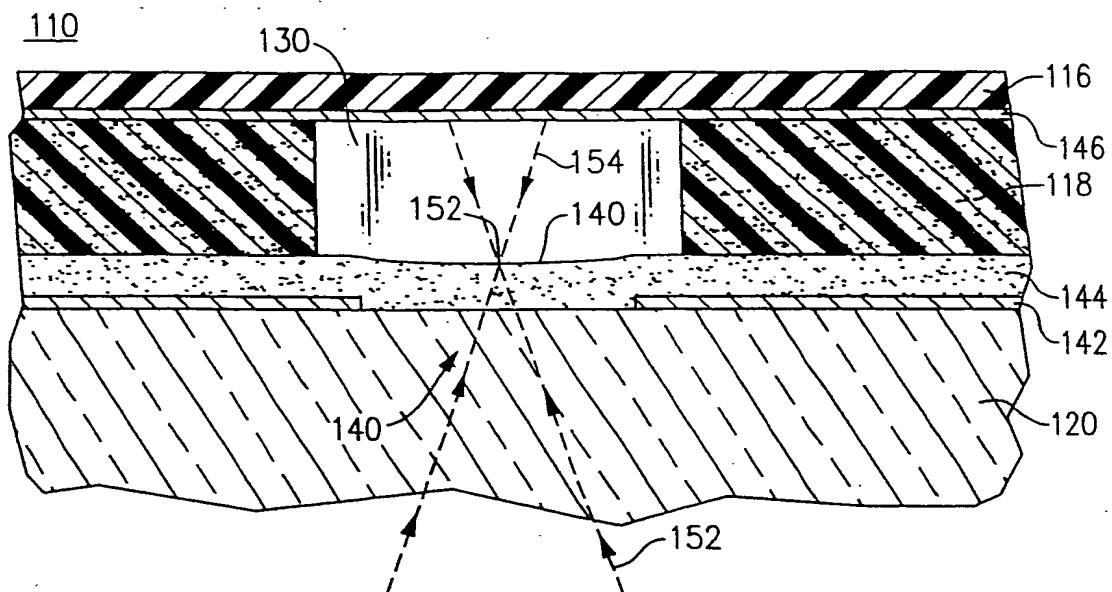


FIG.11

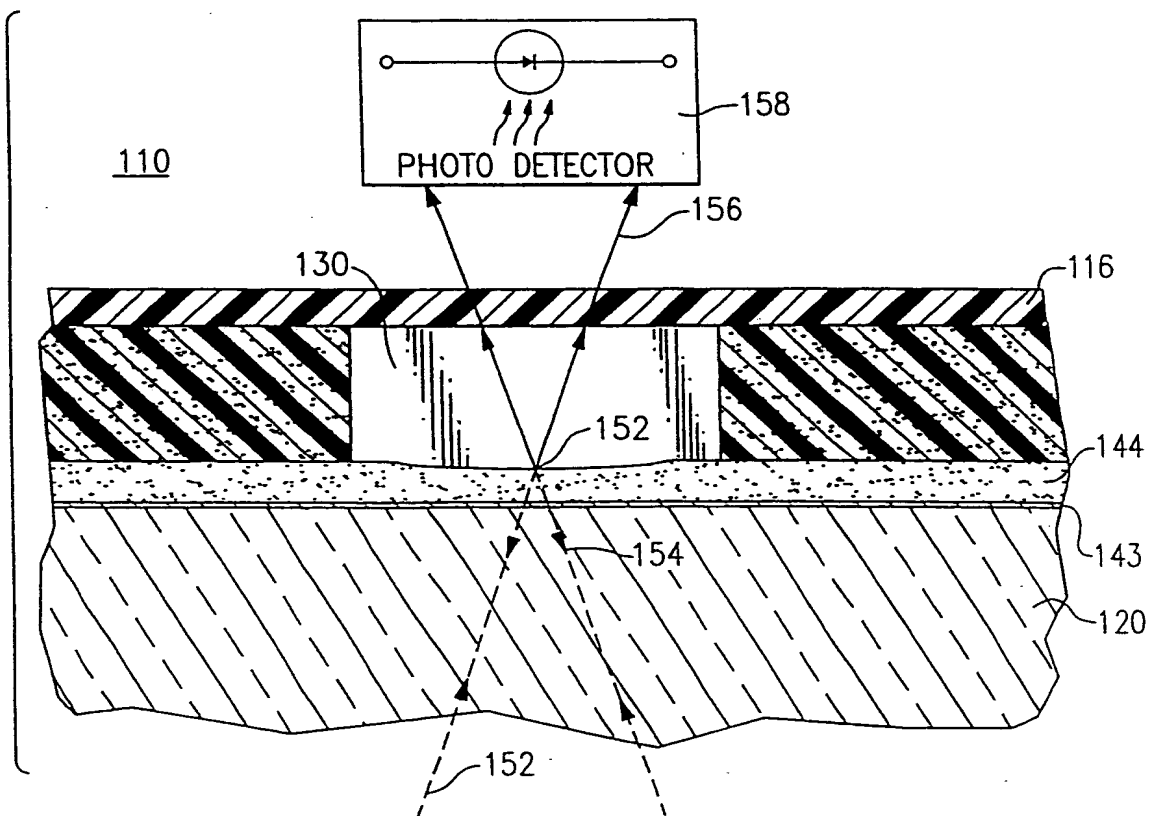


FIG.12

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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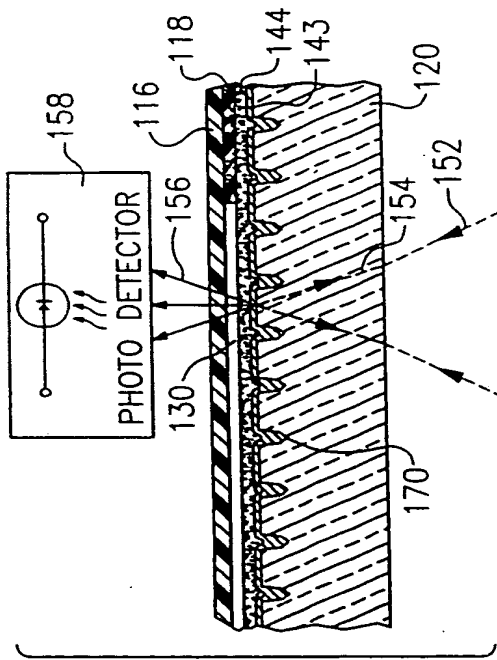


FIG. 14

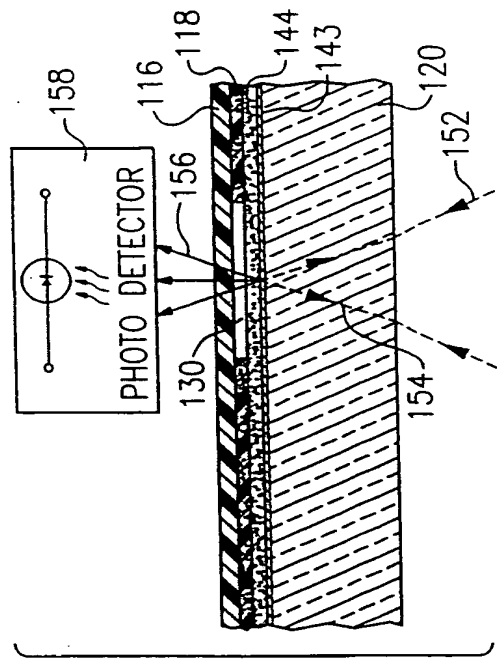


FIG. 16

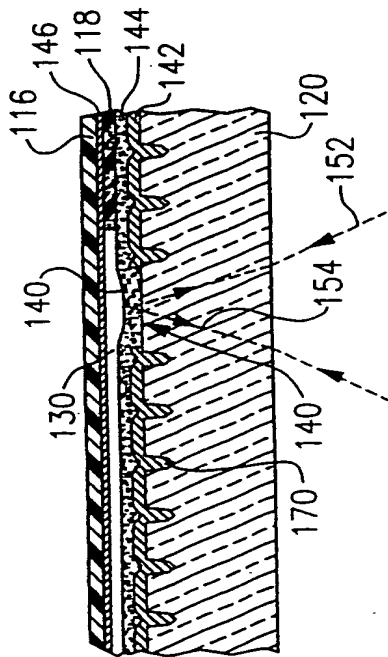


FIG. 13

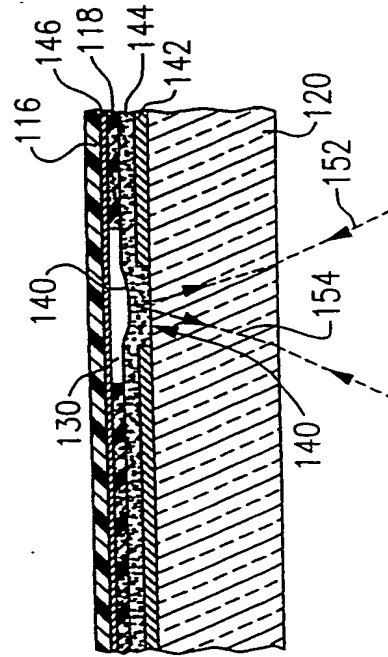
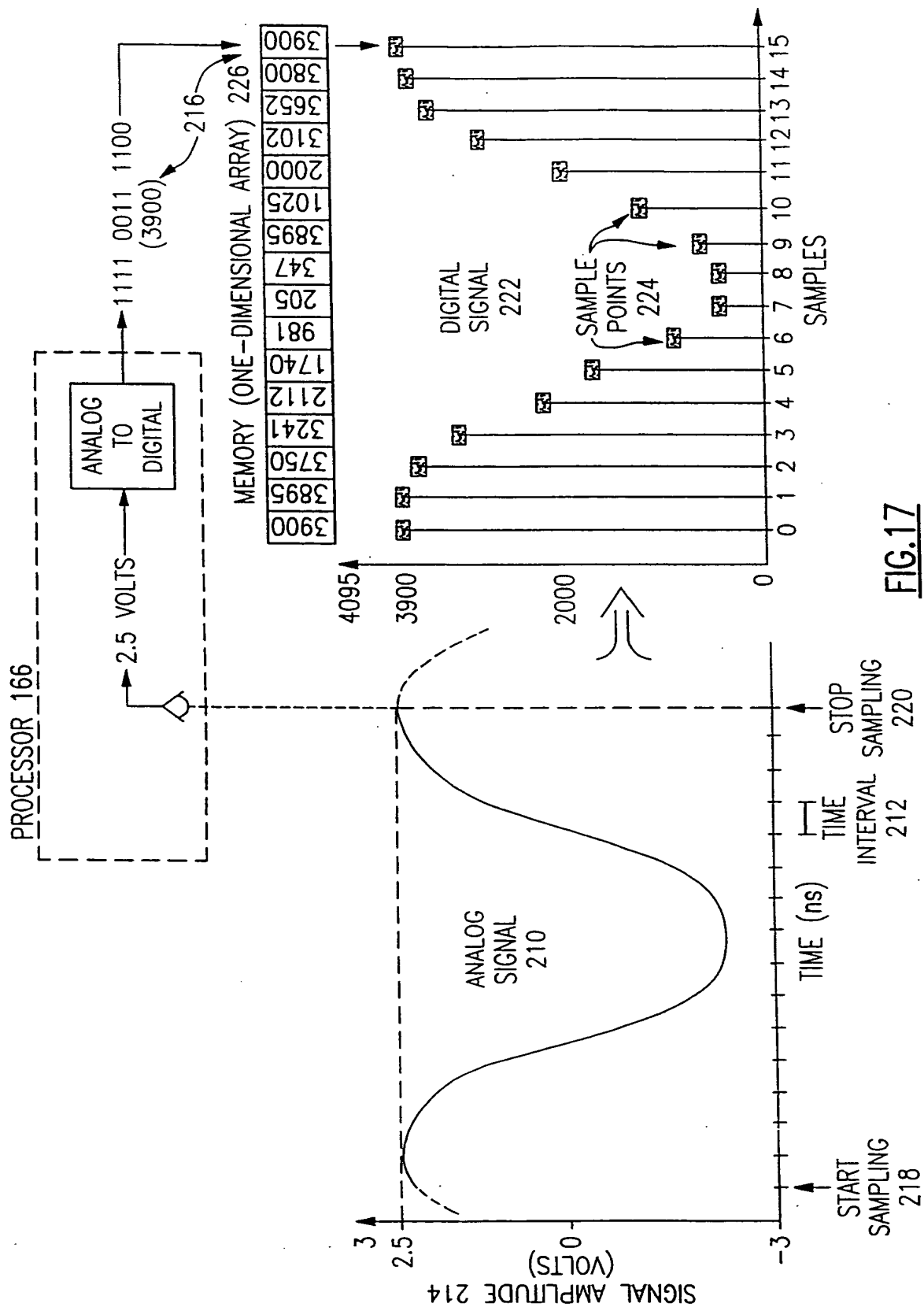


FIG. 15



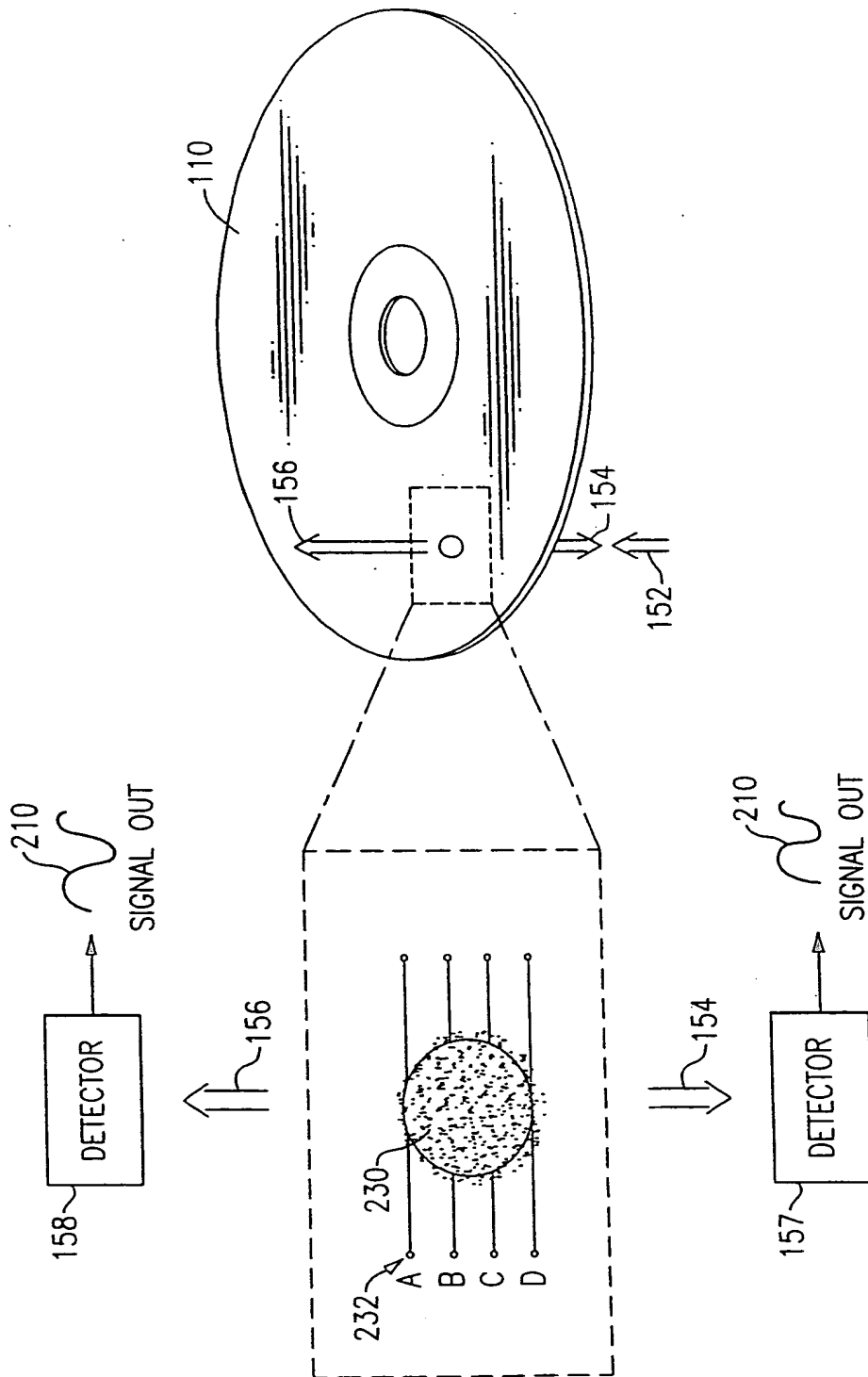


FIG.18

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
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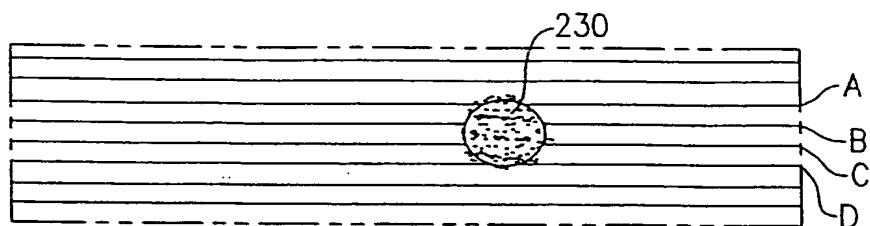


FIG.19A

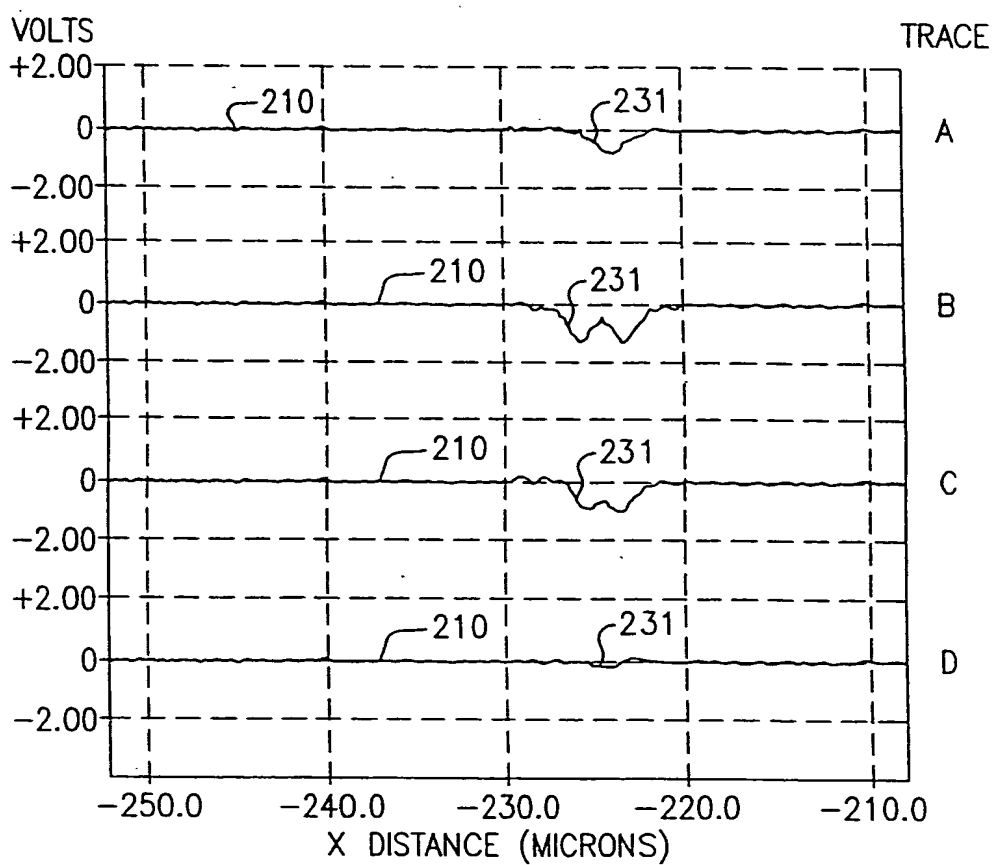


FIG.19B

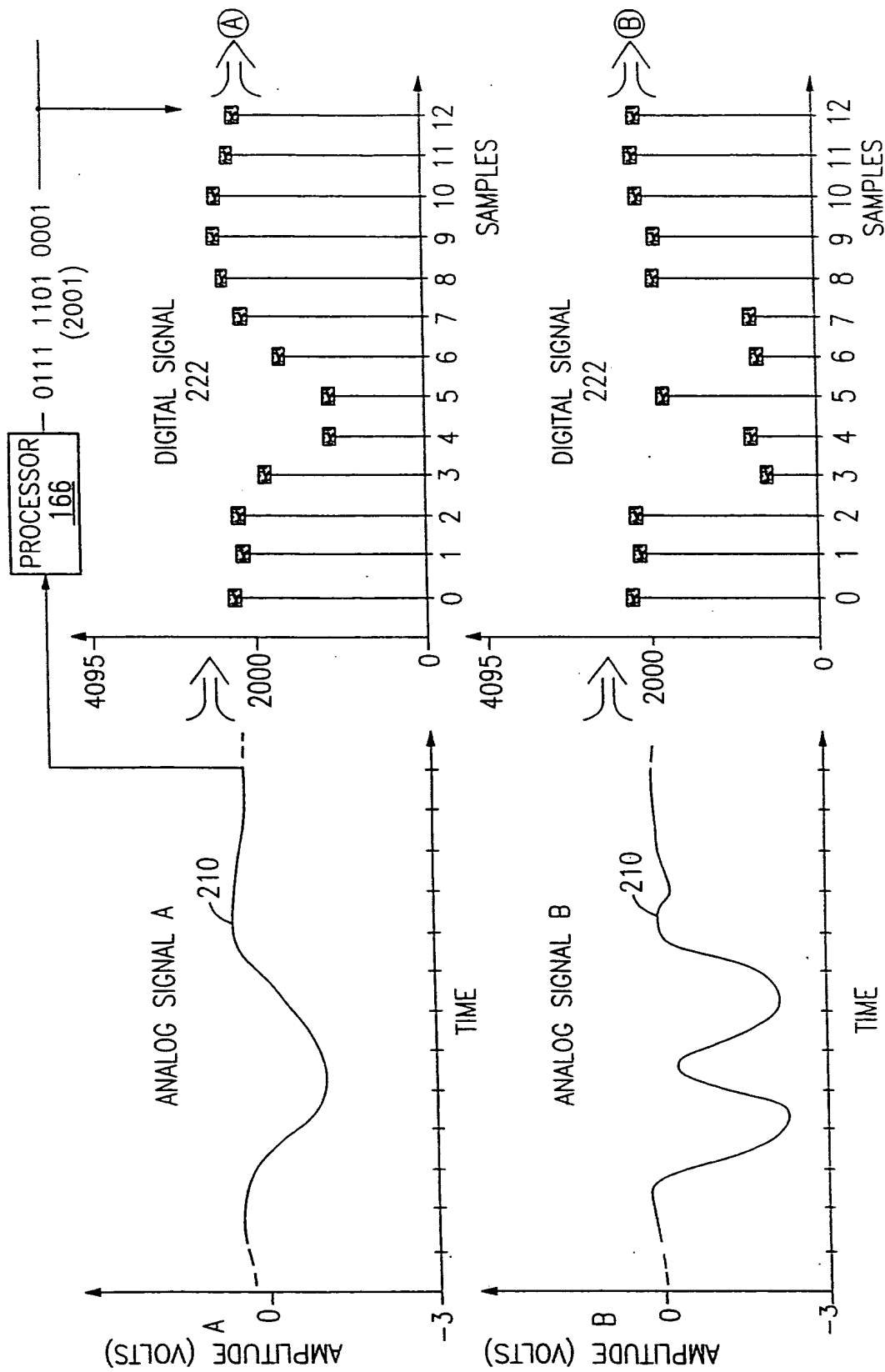


FIG. 20A

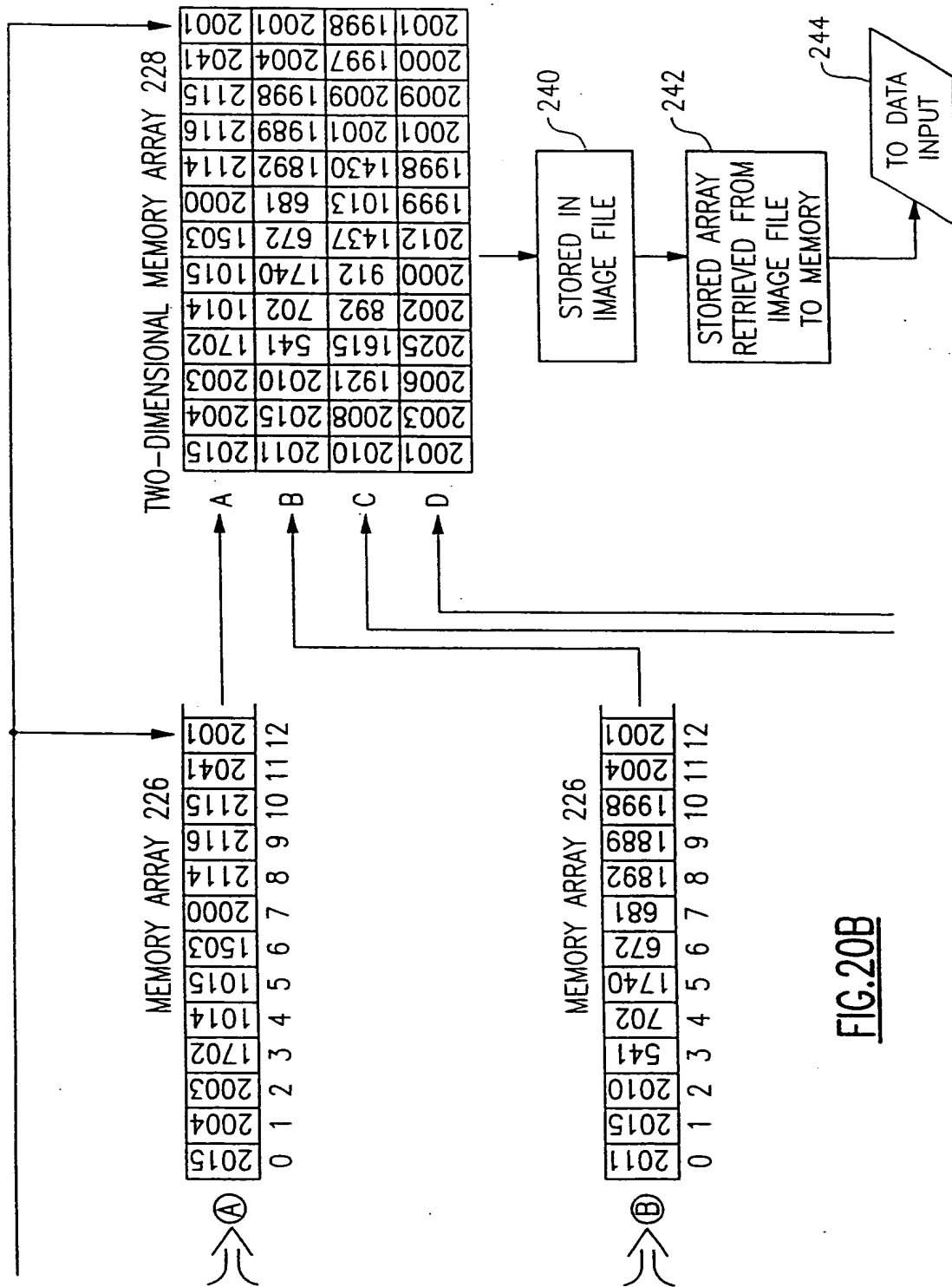


FIG.20B

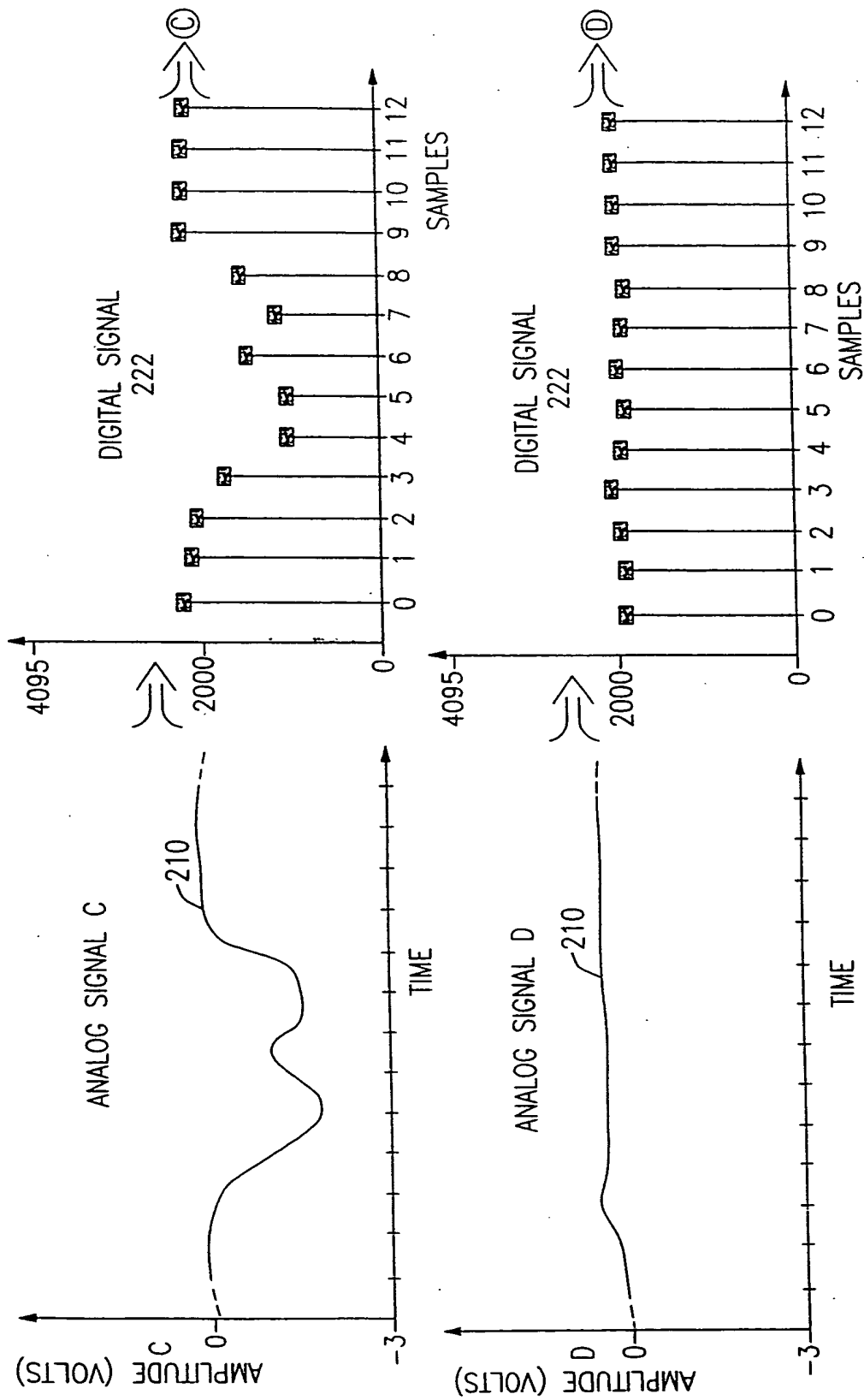


FIG. 20C

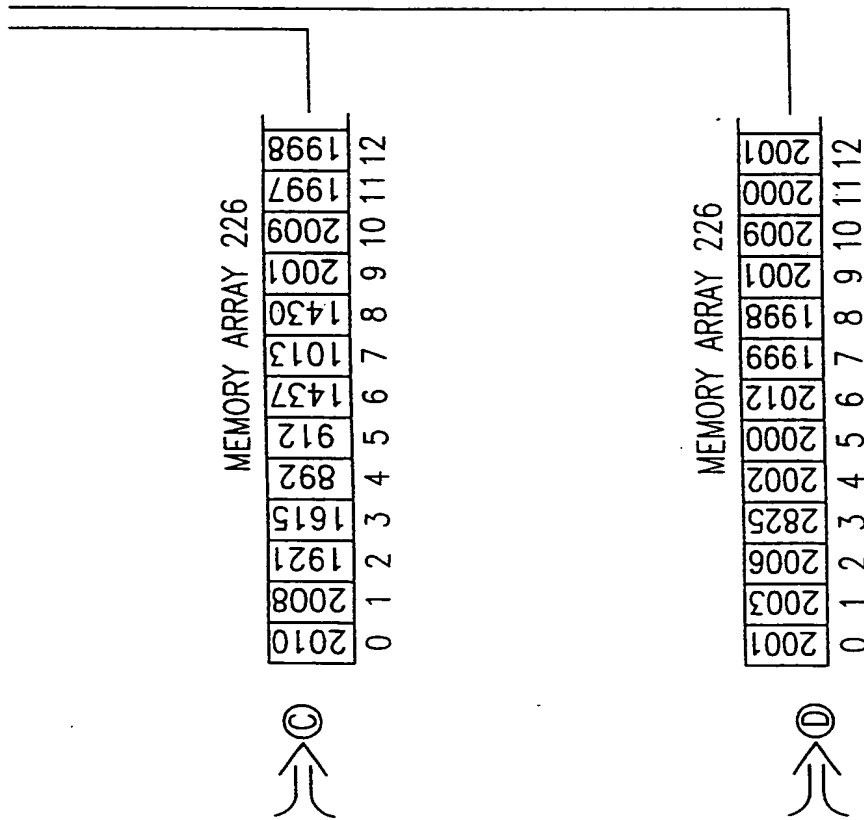
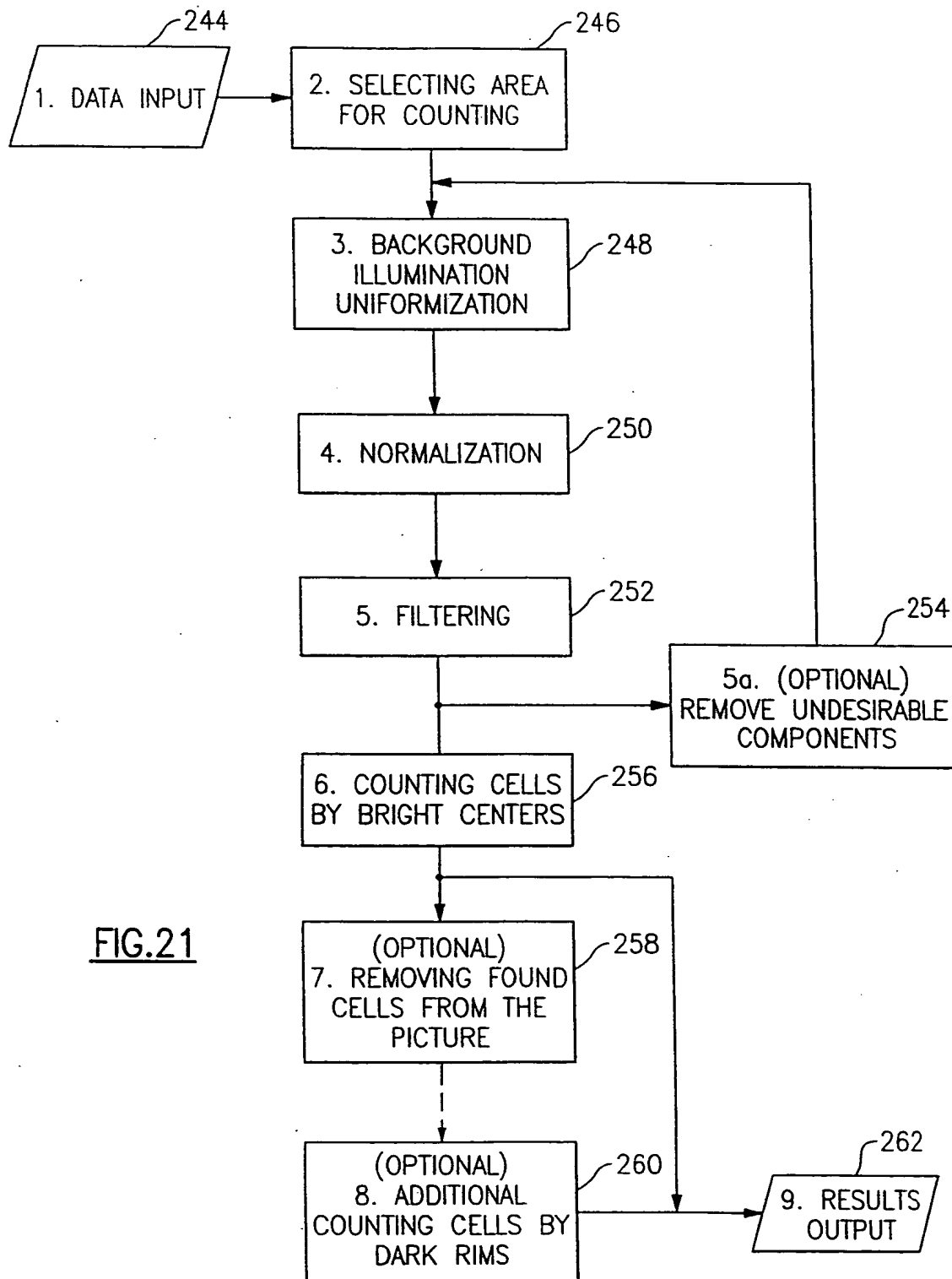


FIG.20D

FIG.20A	FIG.20B
FIG.20C	FIG.20D

FIG.20



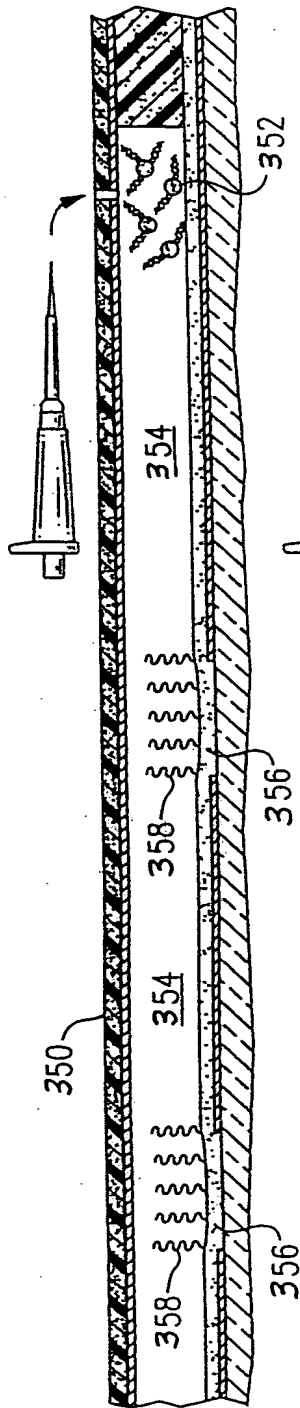


FIG. 22A

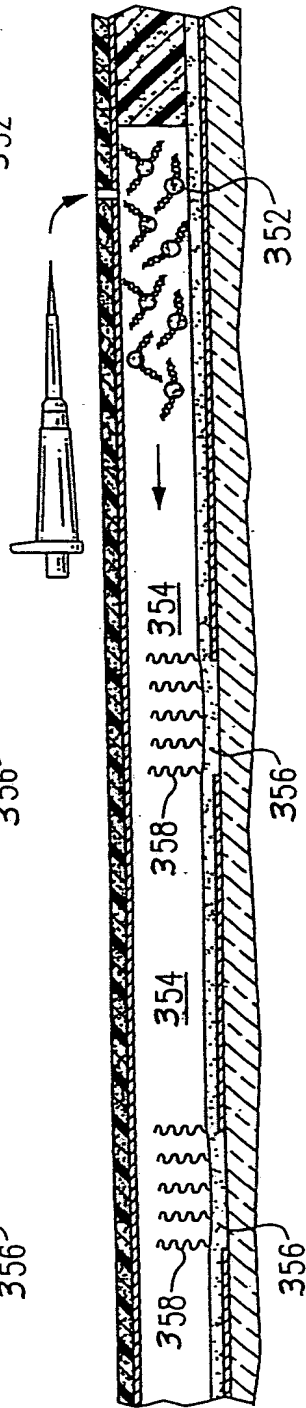


FIG. 22B

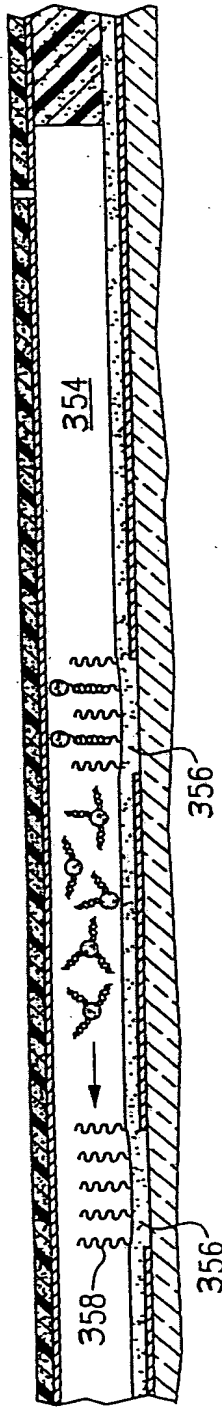


FIG. 22C

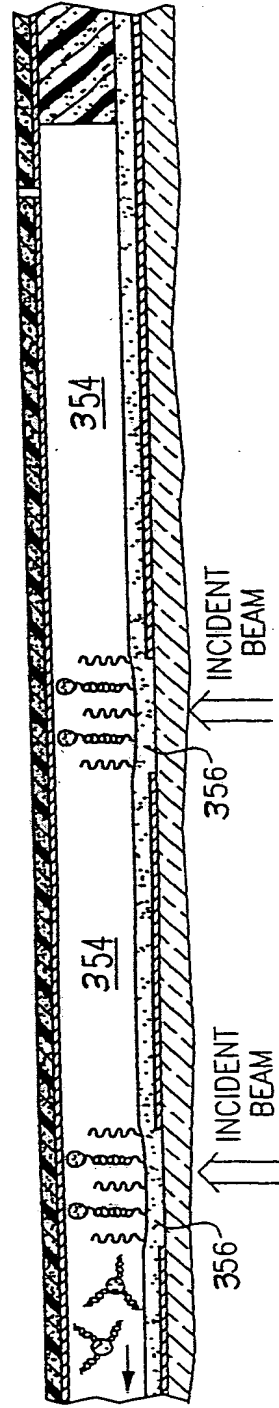


FIG. 22D

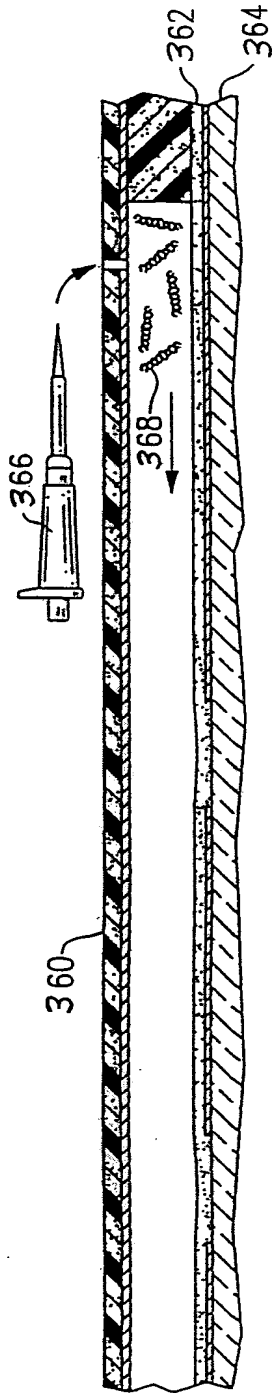


FIG. 23A

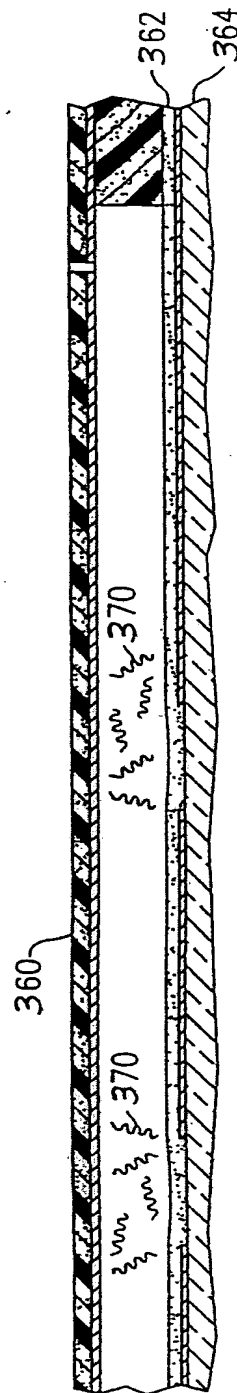


FIG. 23B

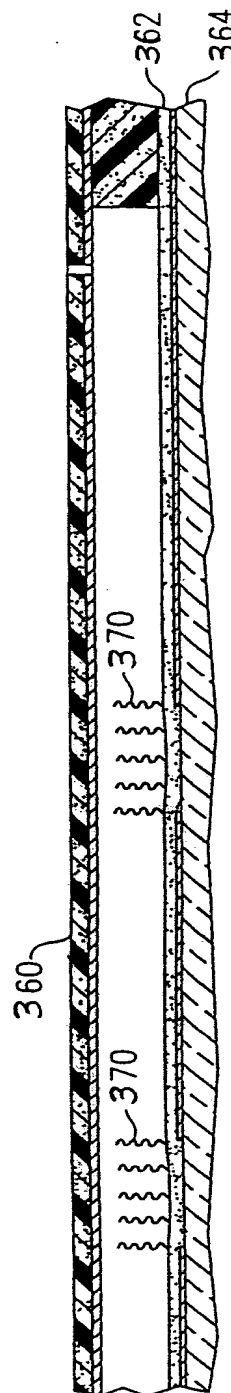


FIG. 23C

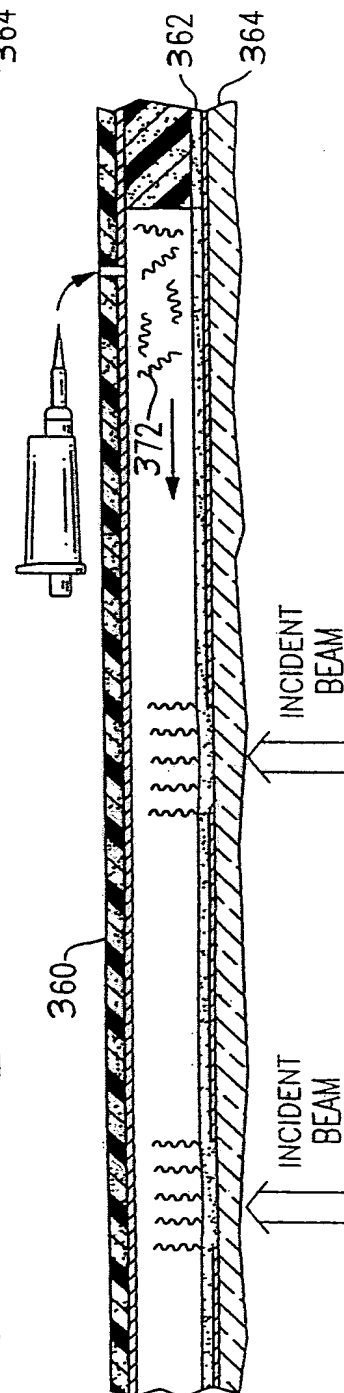


FIG. 23D

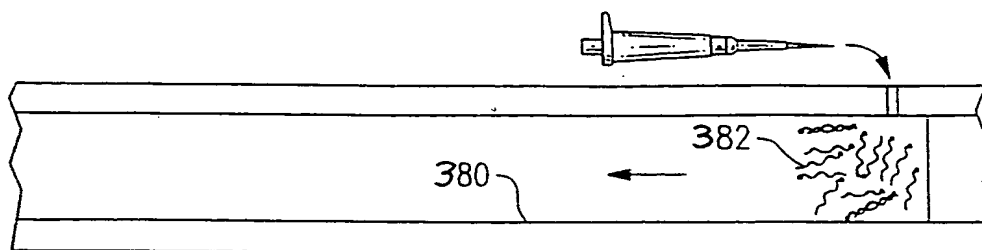


FIG. 24A

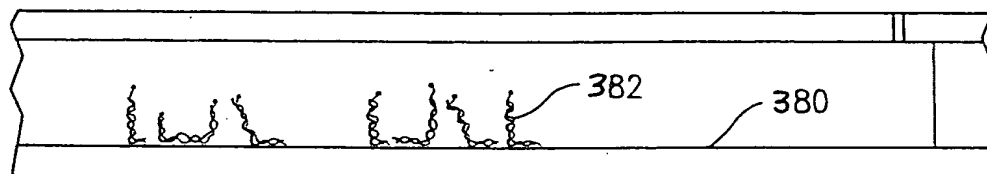


FIG. 24B

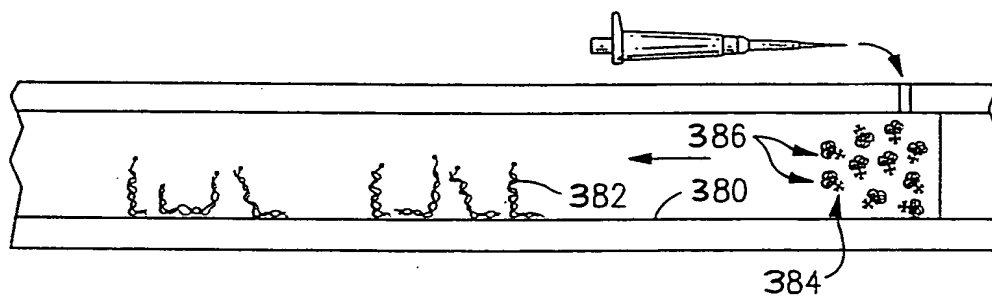


FIG. 24C

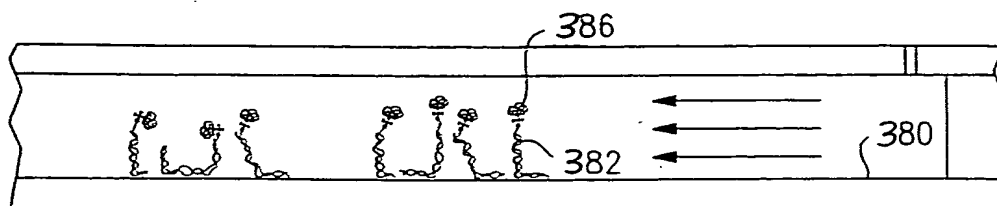


FIG. 24D

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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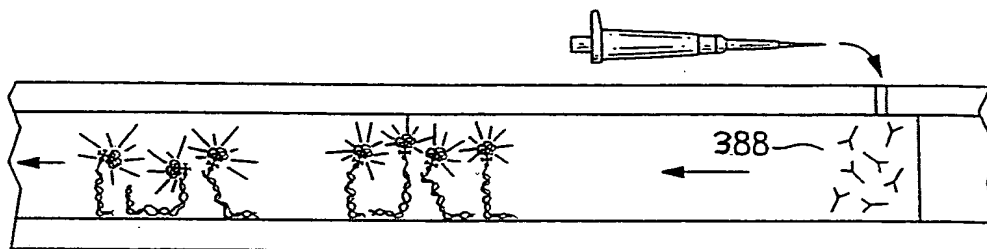


FIG. 24E

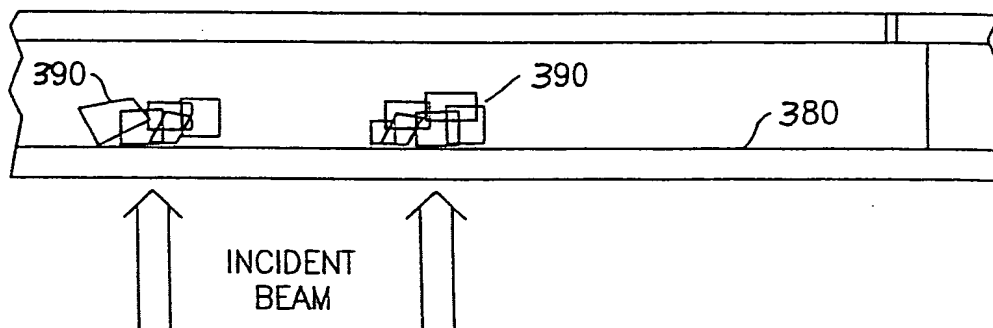


FIG. 24F

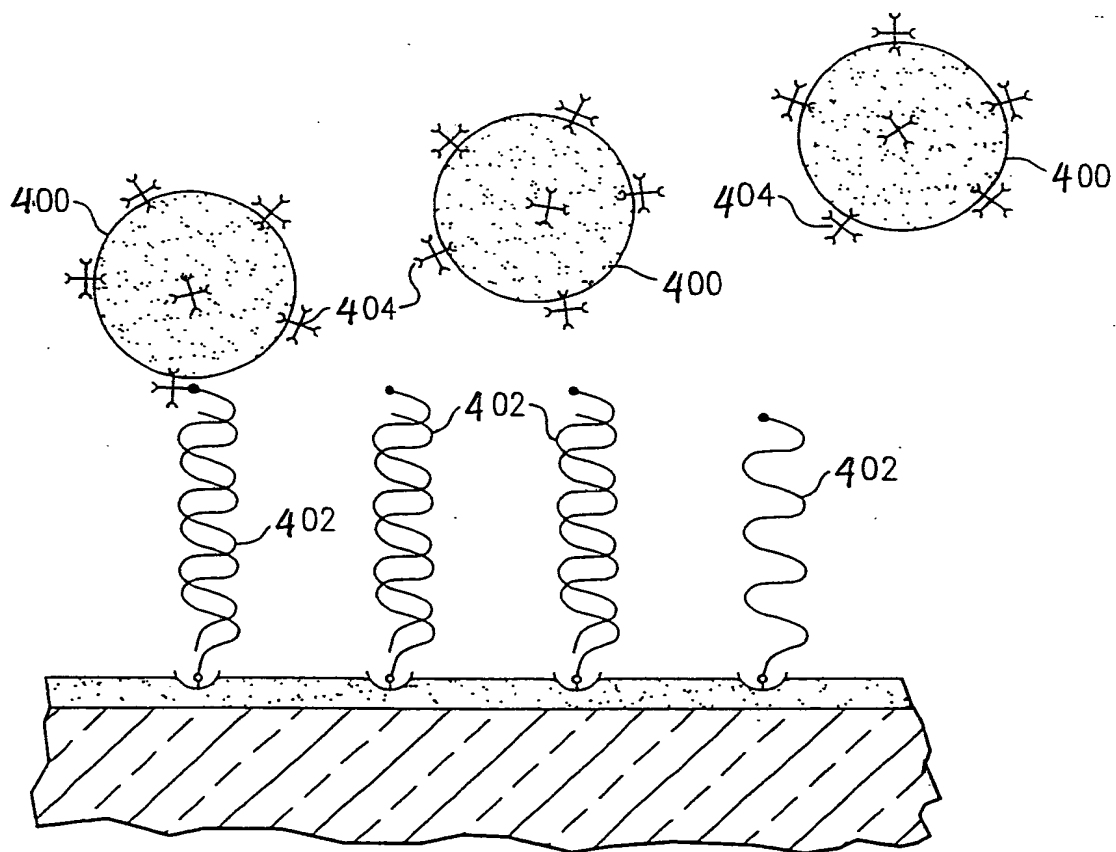


FIG. 25

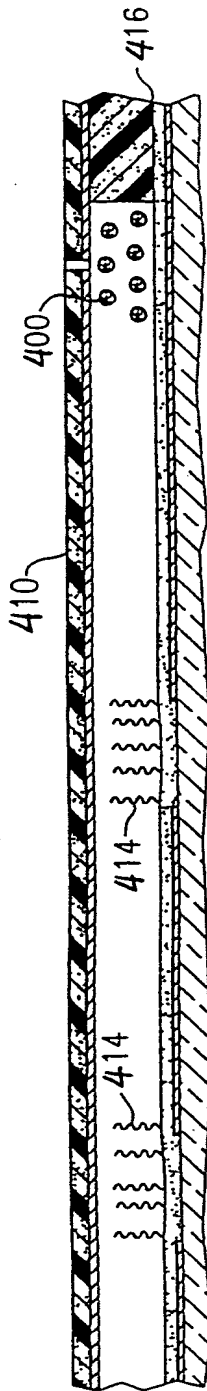


FIG. 26A

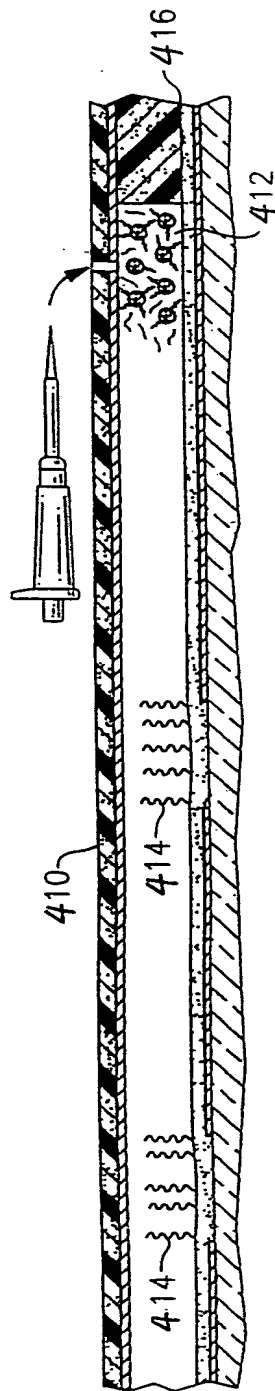


FIG. 26B

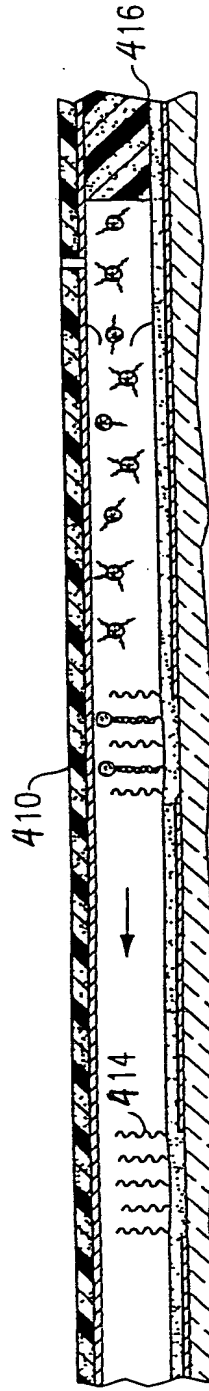


FIG. 26C

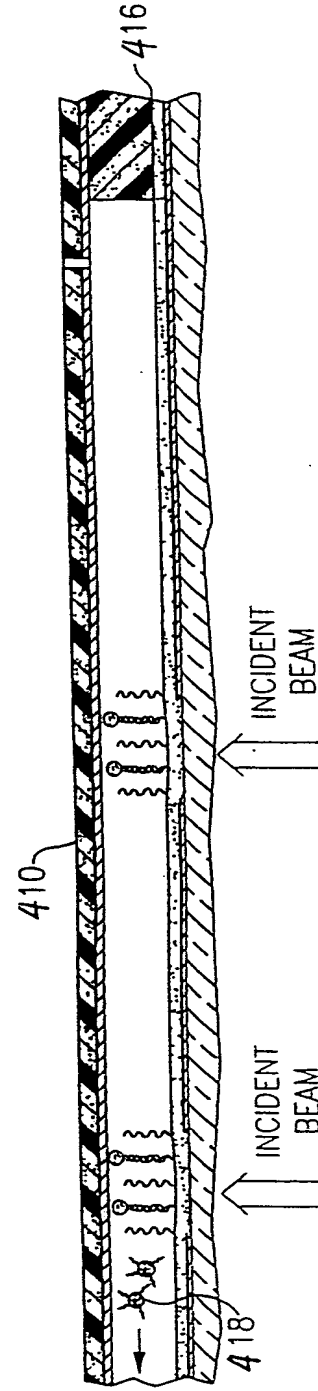


FIG. 26D

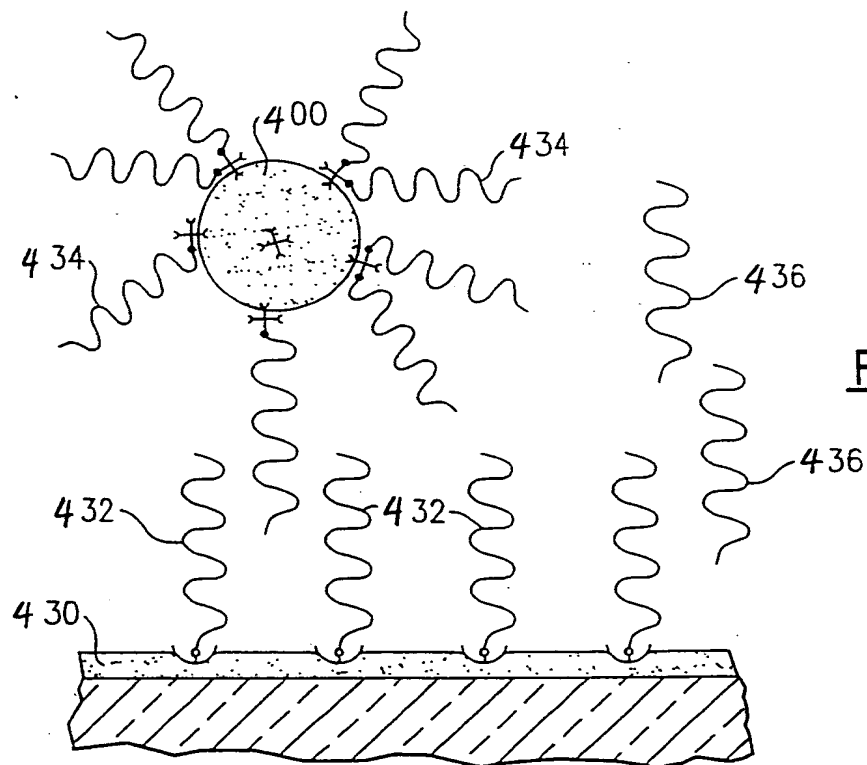
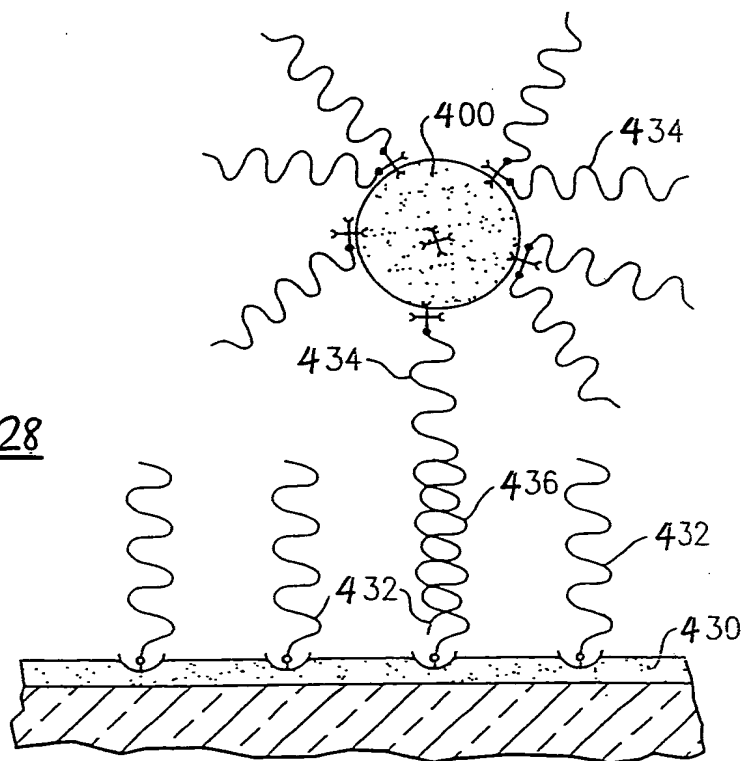


FIG. 28



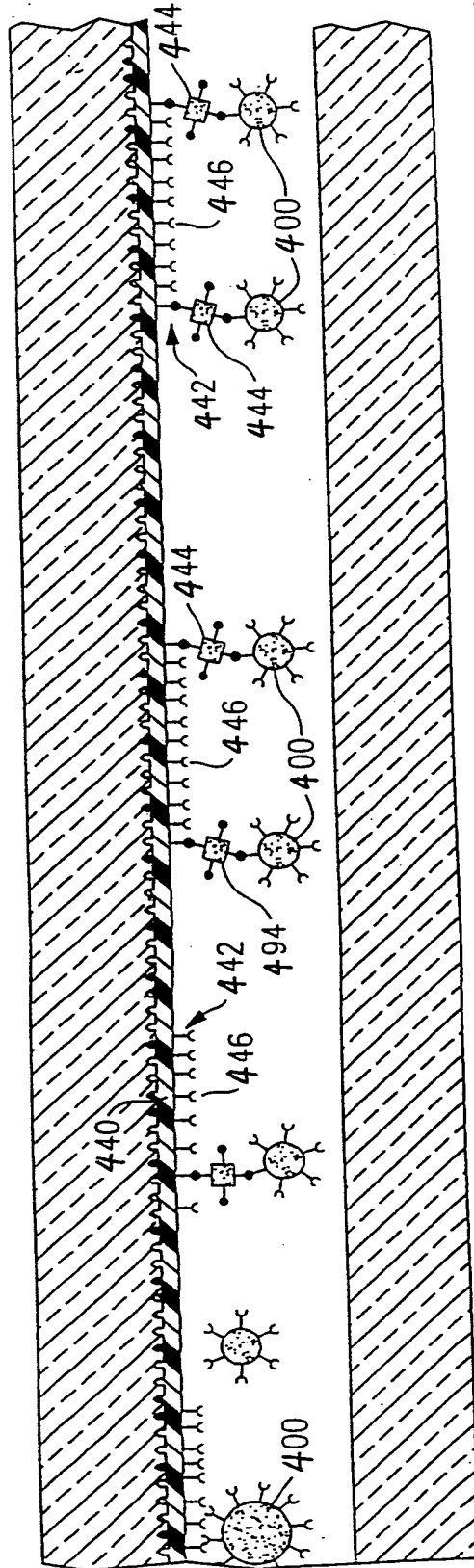


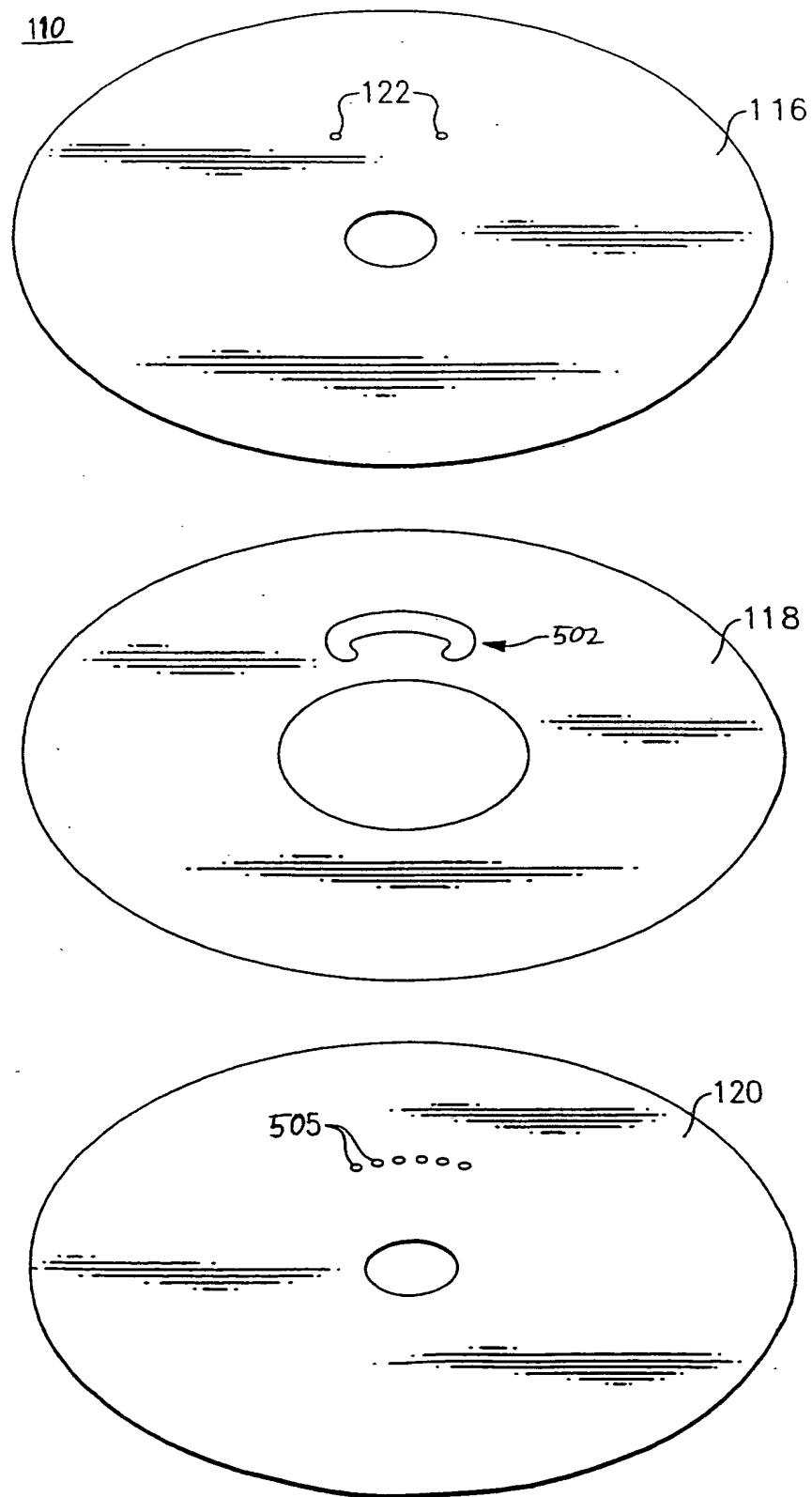
FIG. 29

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FIG. 30



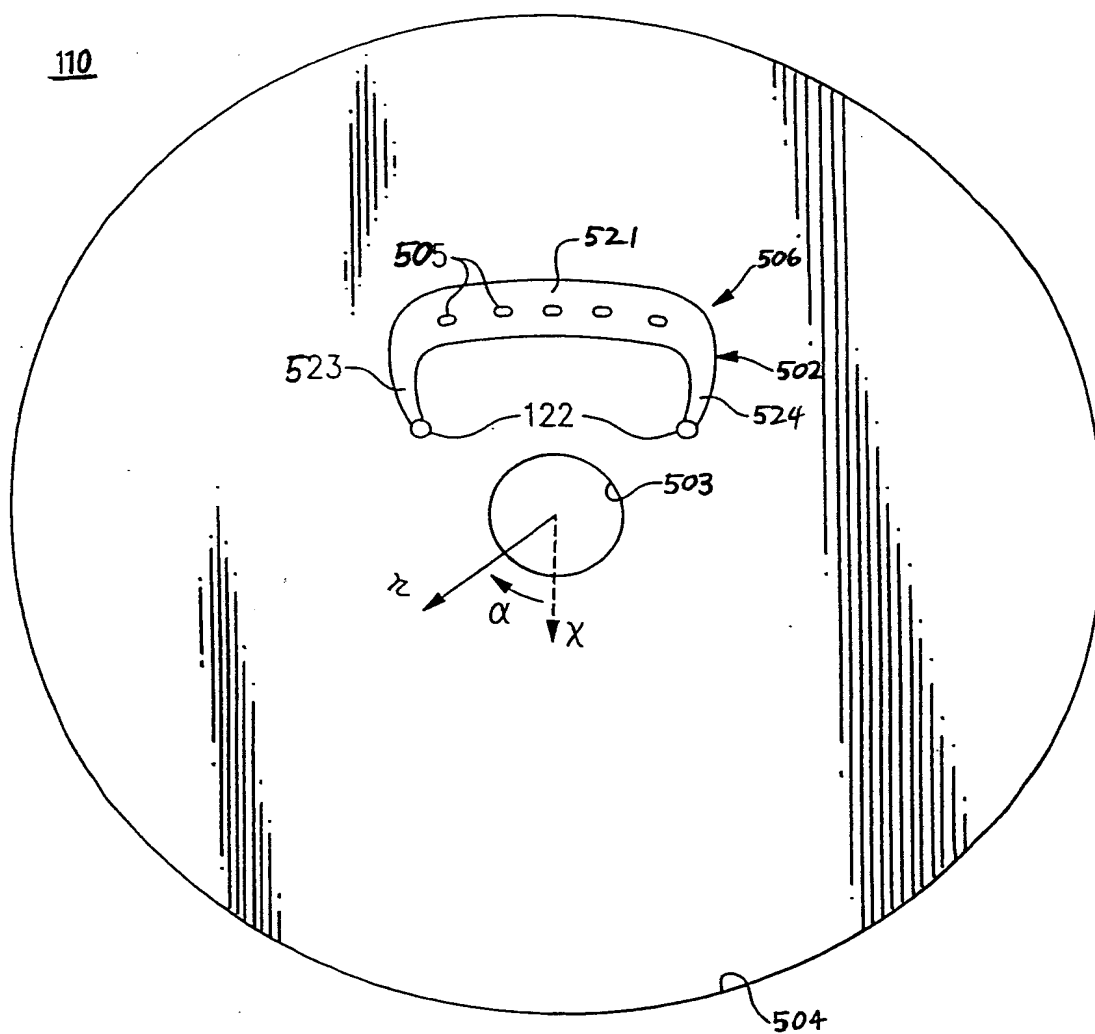
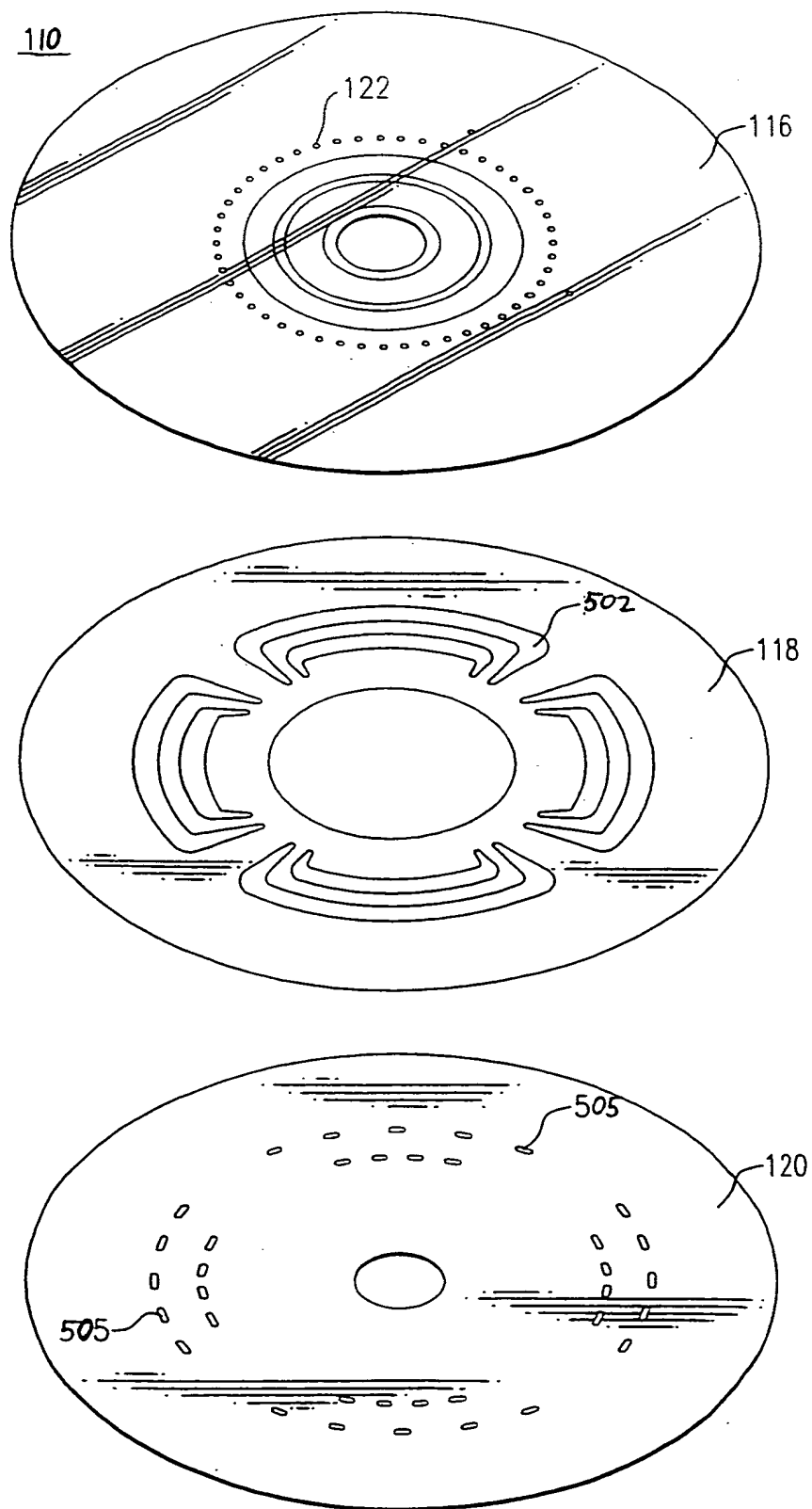


FIG. 32A



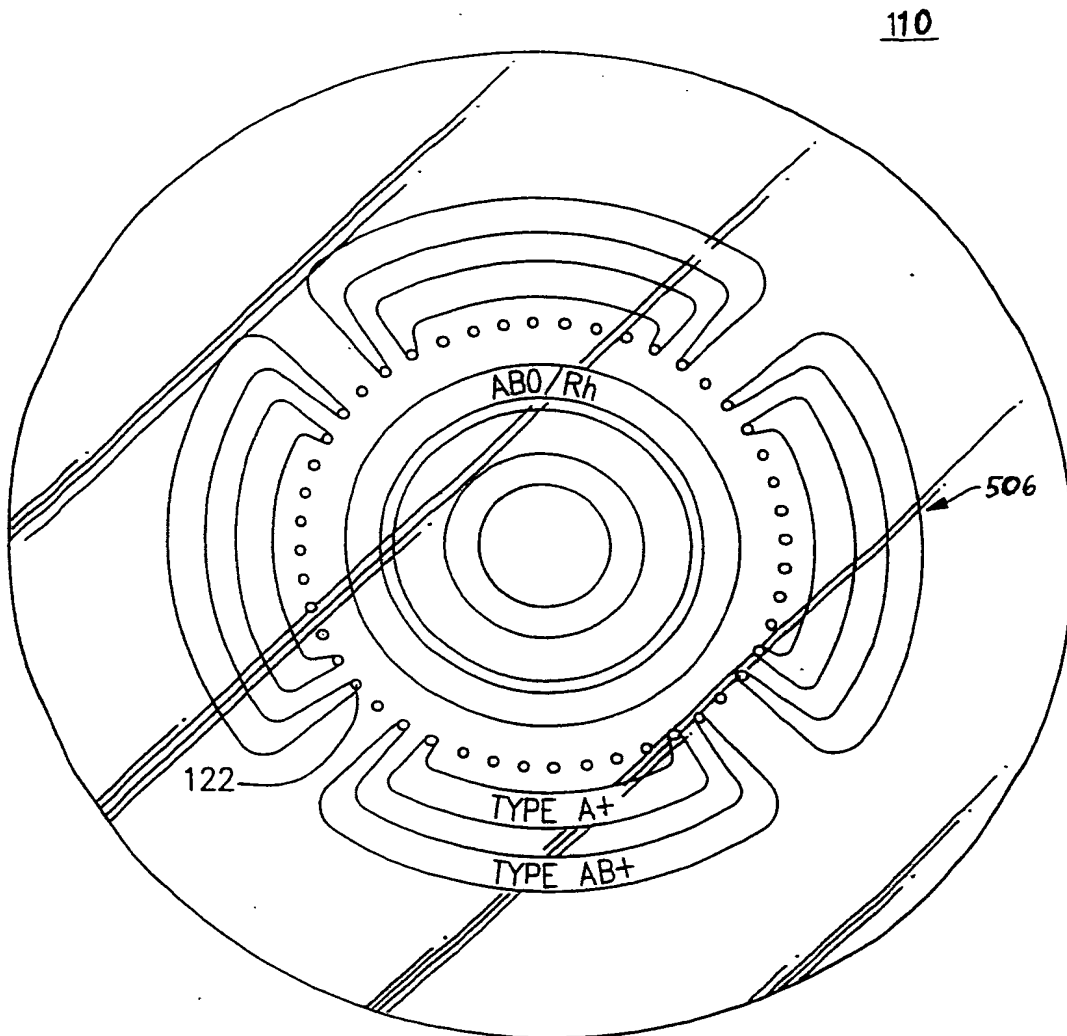


FIG.32B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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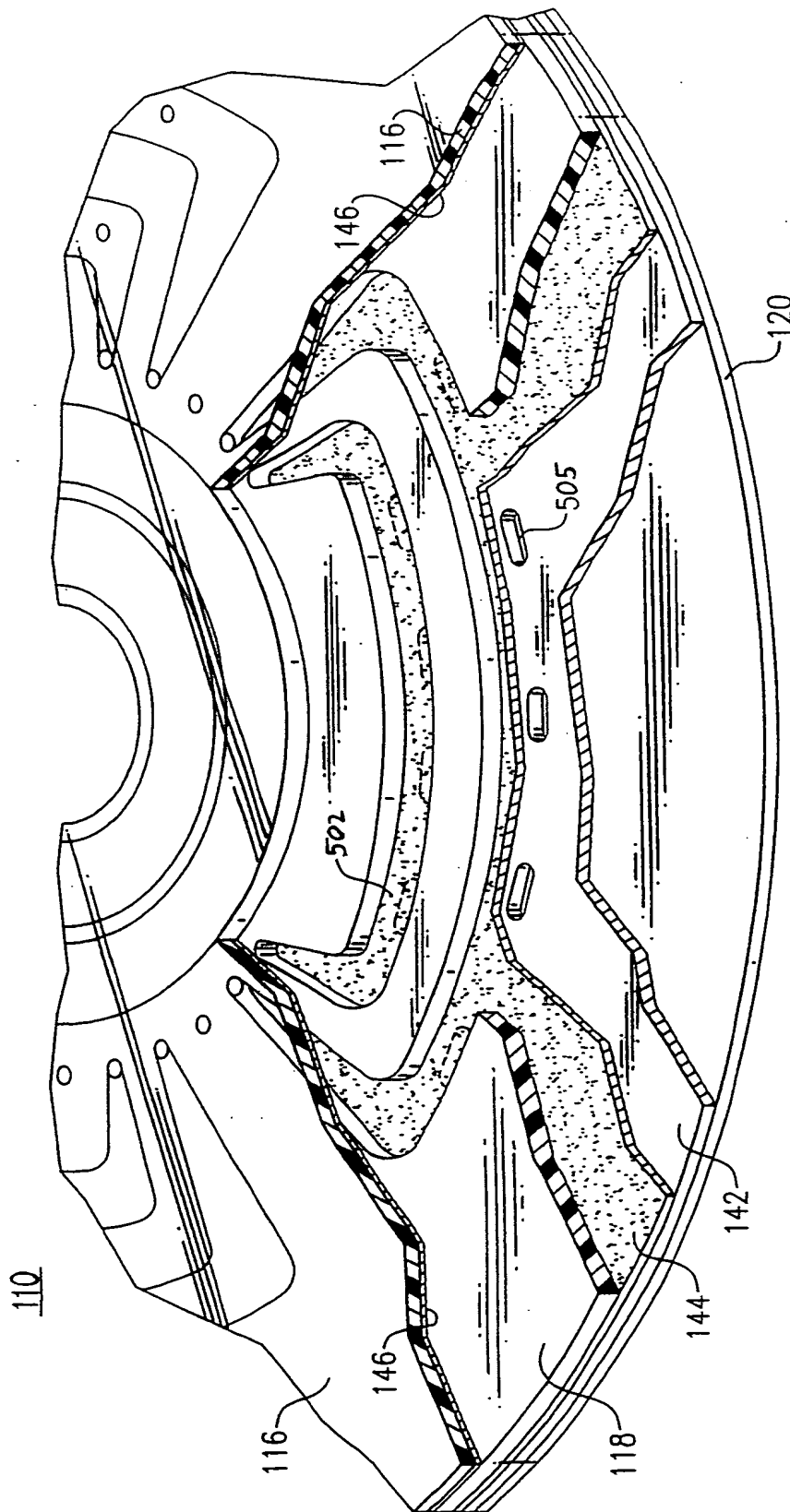
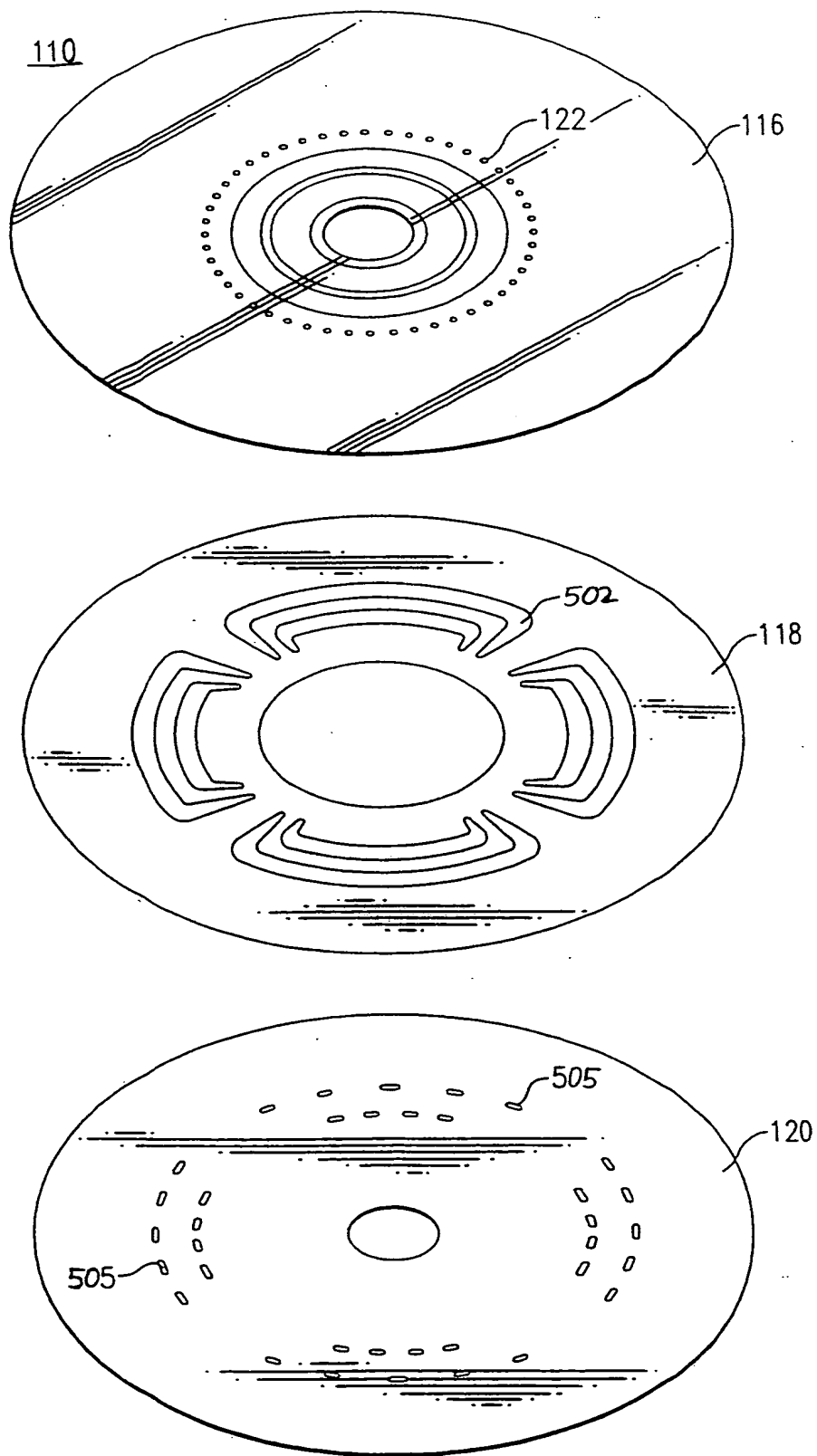


FIG. 32C

FIG. 33A



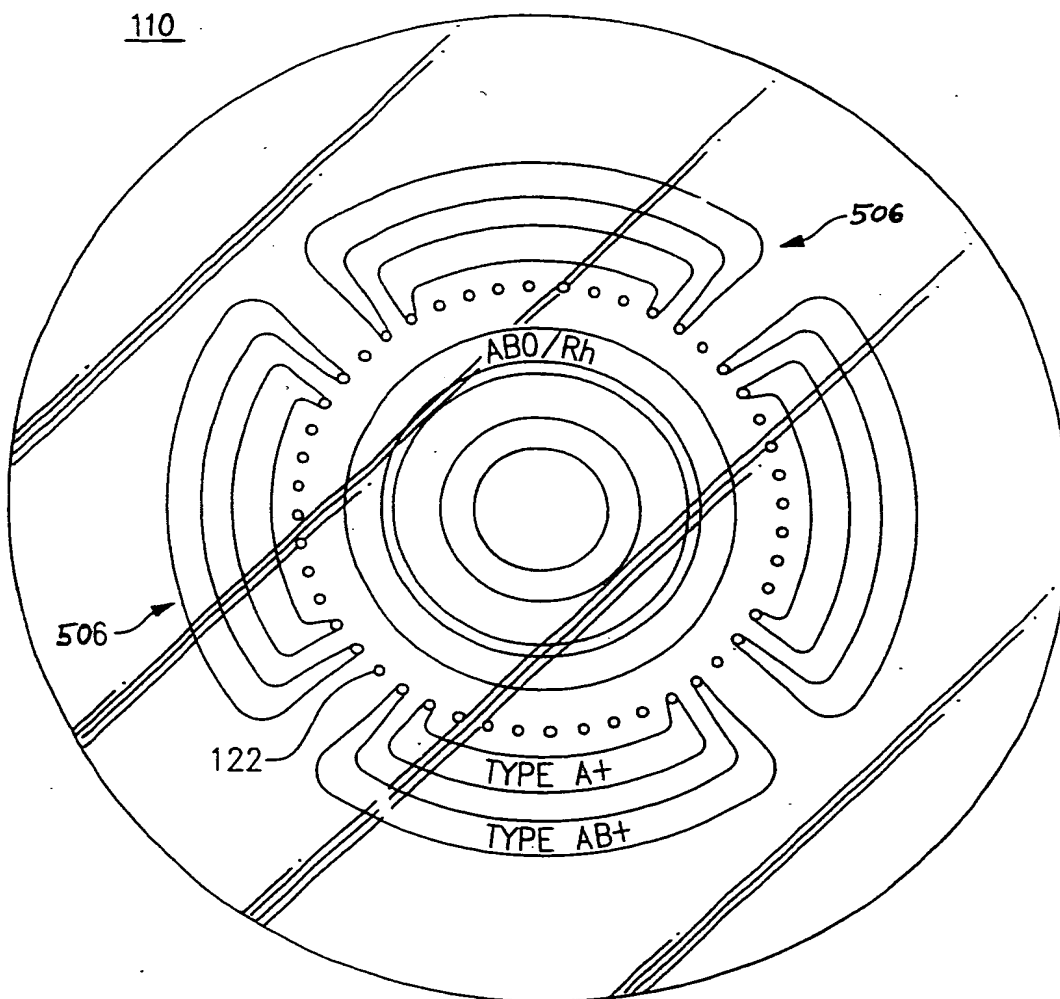


FIG. 33B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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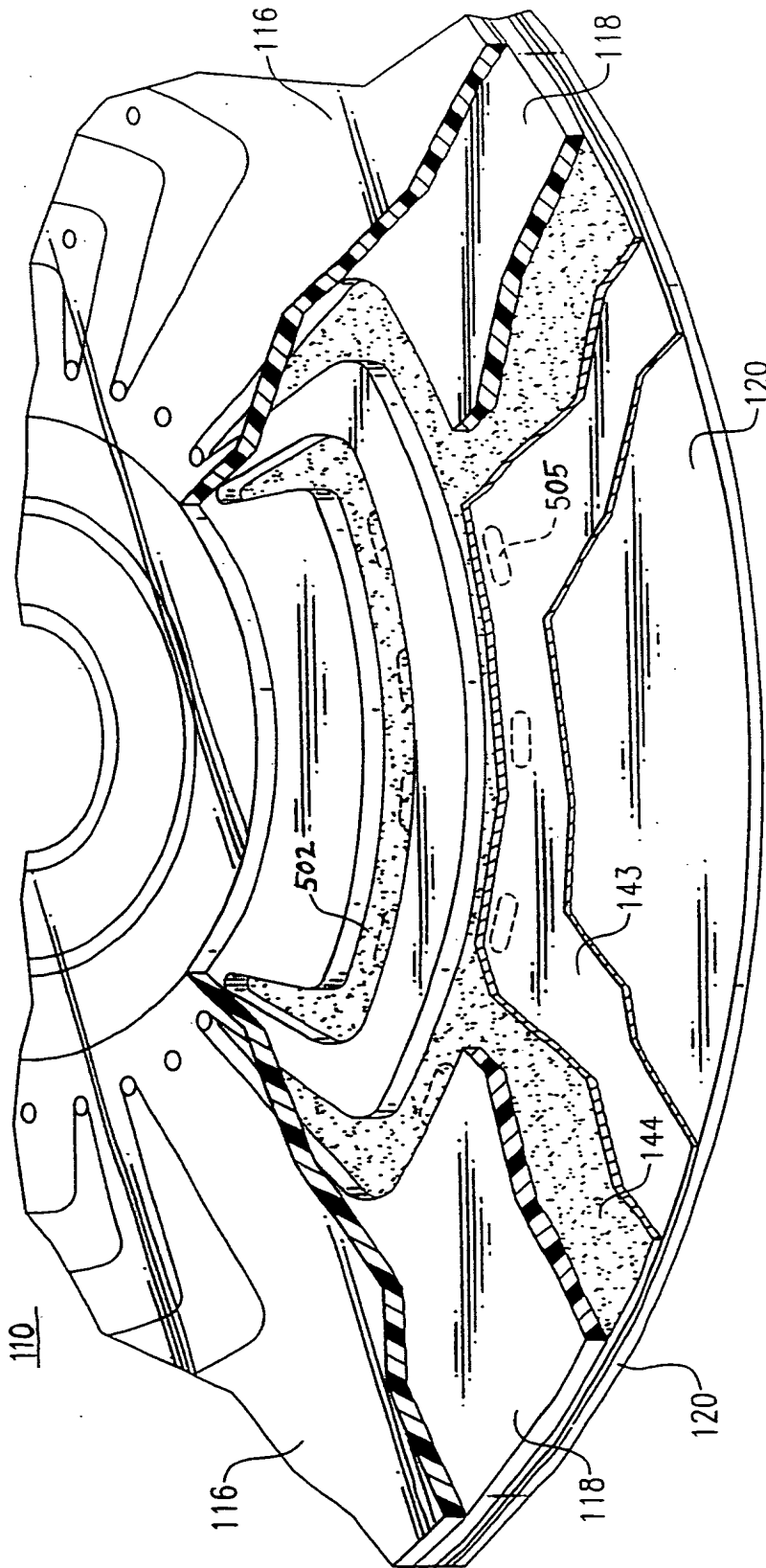


FIG. 33C

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
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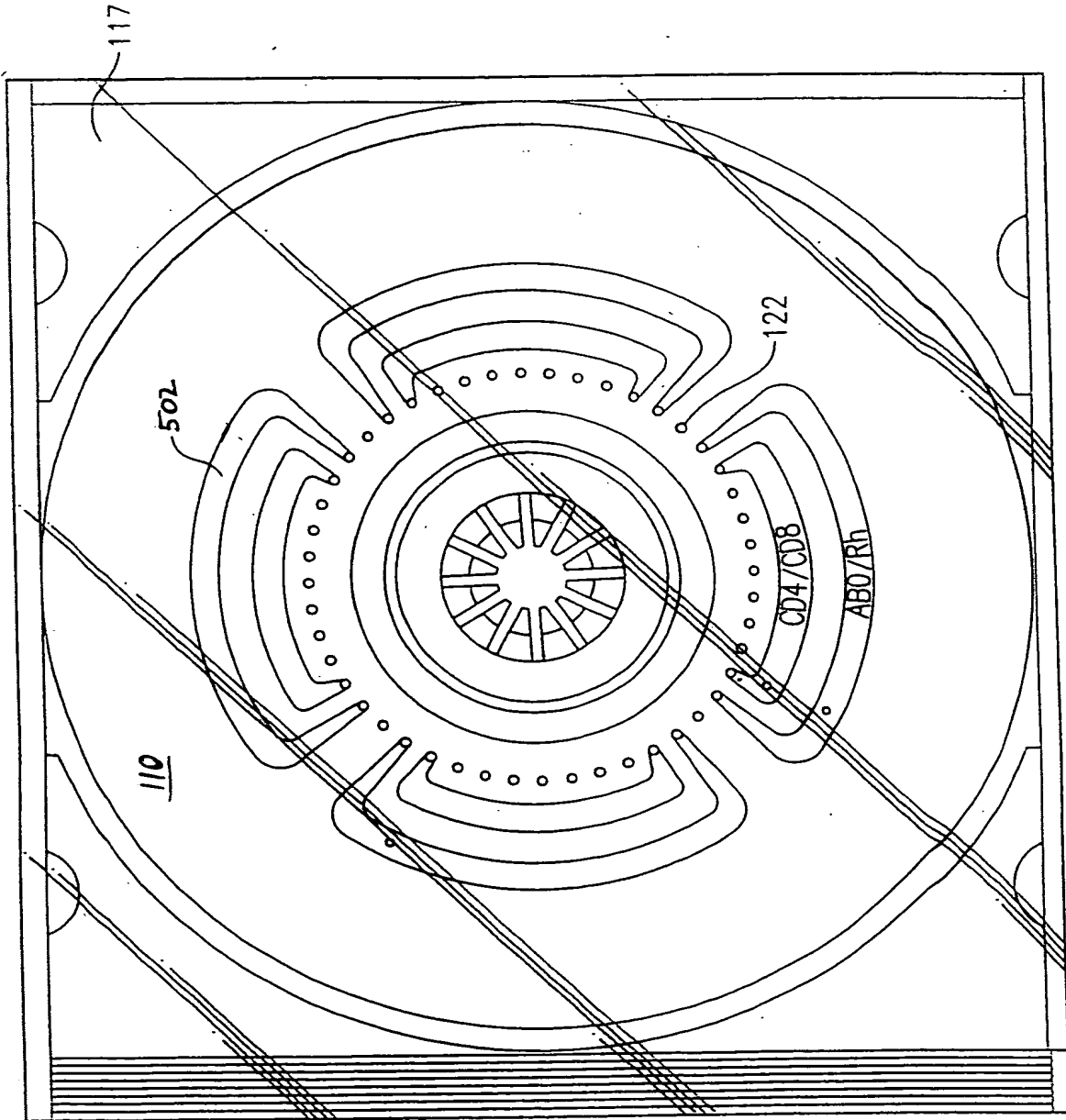


FIG. 34

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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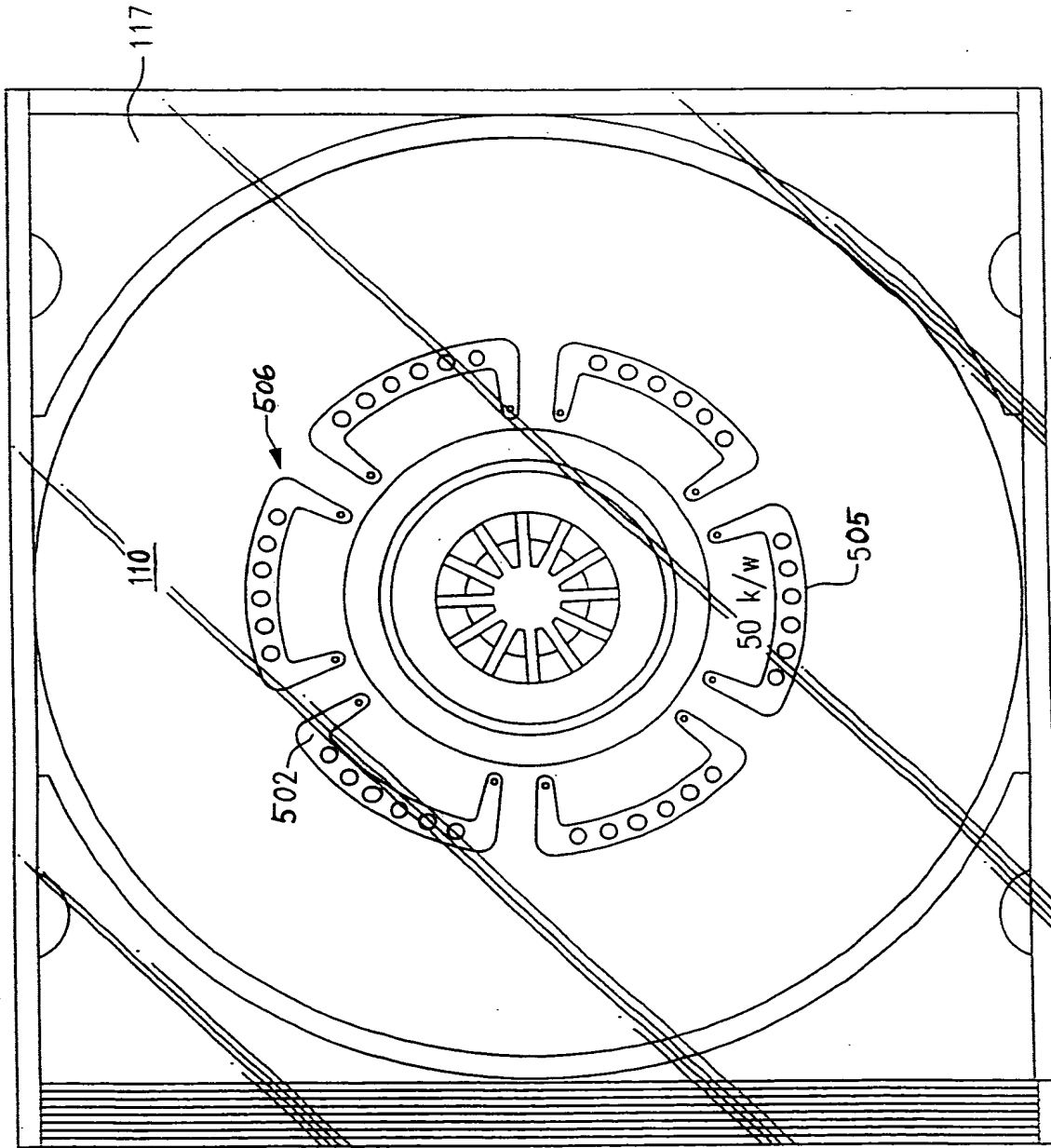
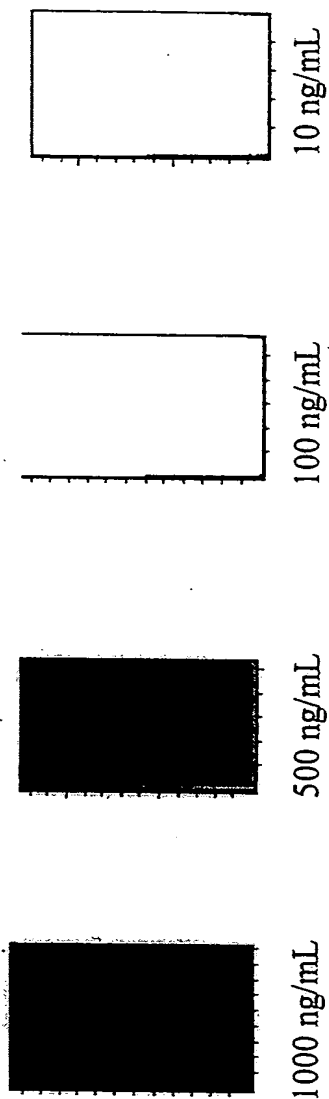


FIG. 35

N. Staimer
BTI

CD-Derived Hemoglobin Dose-Response Images

Hemoglobin Ao



Hemoglobin A1c

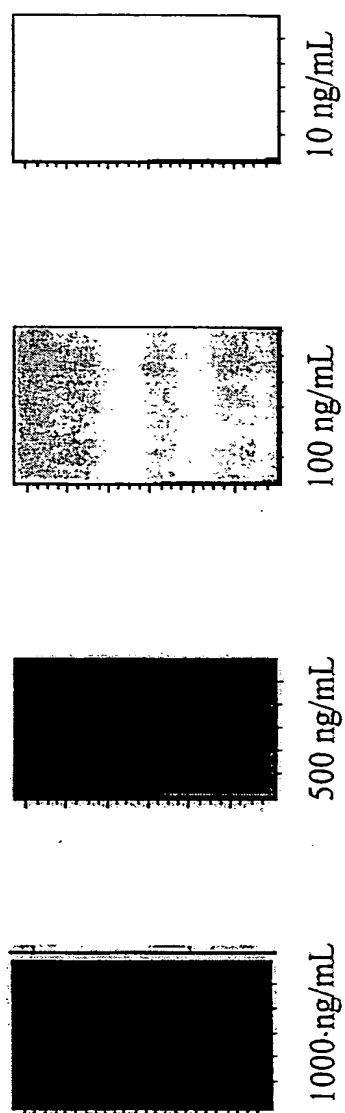
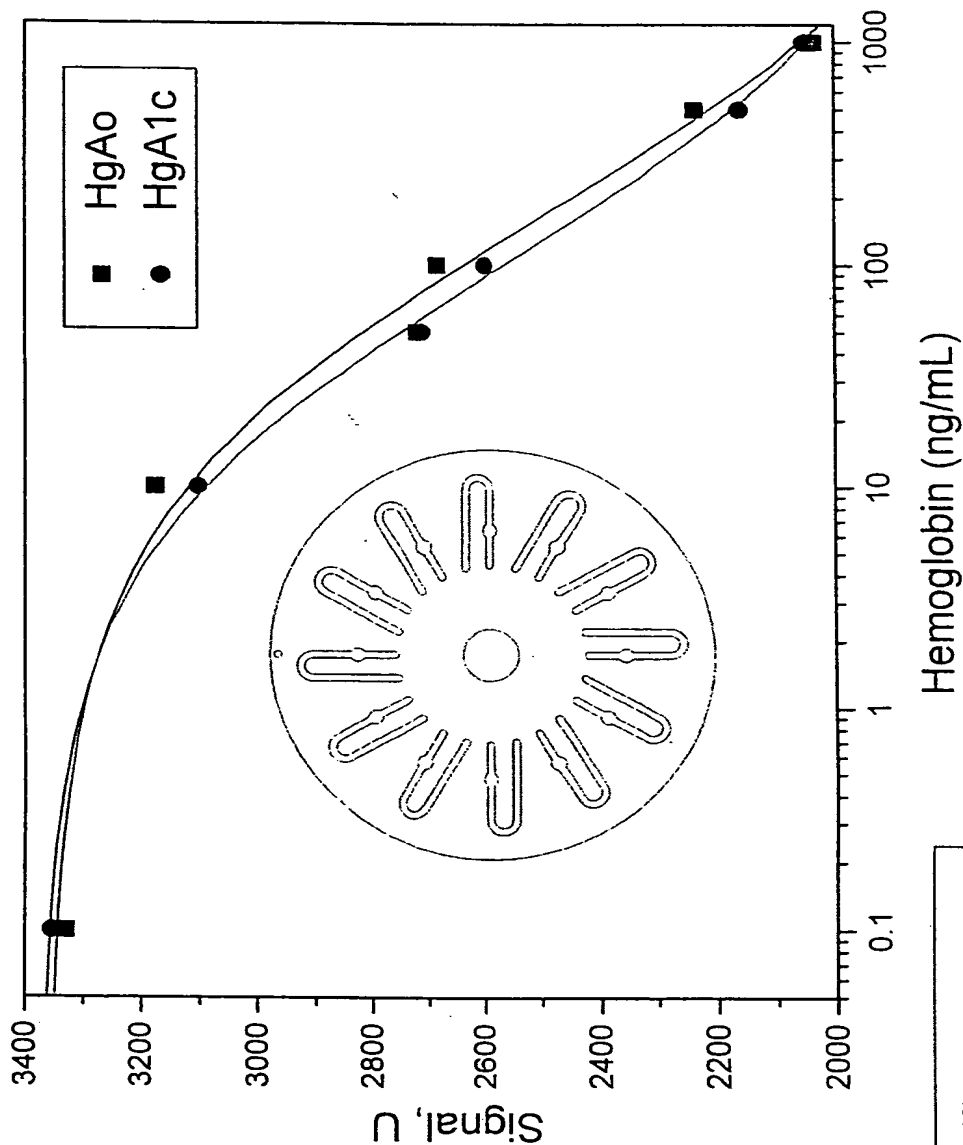


Fig. 36

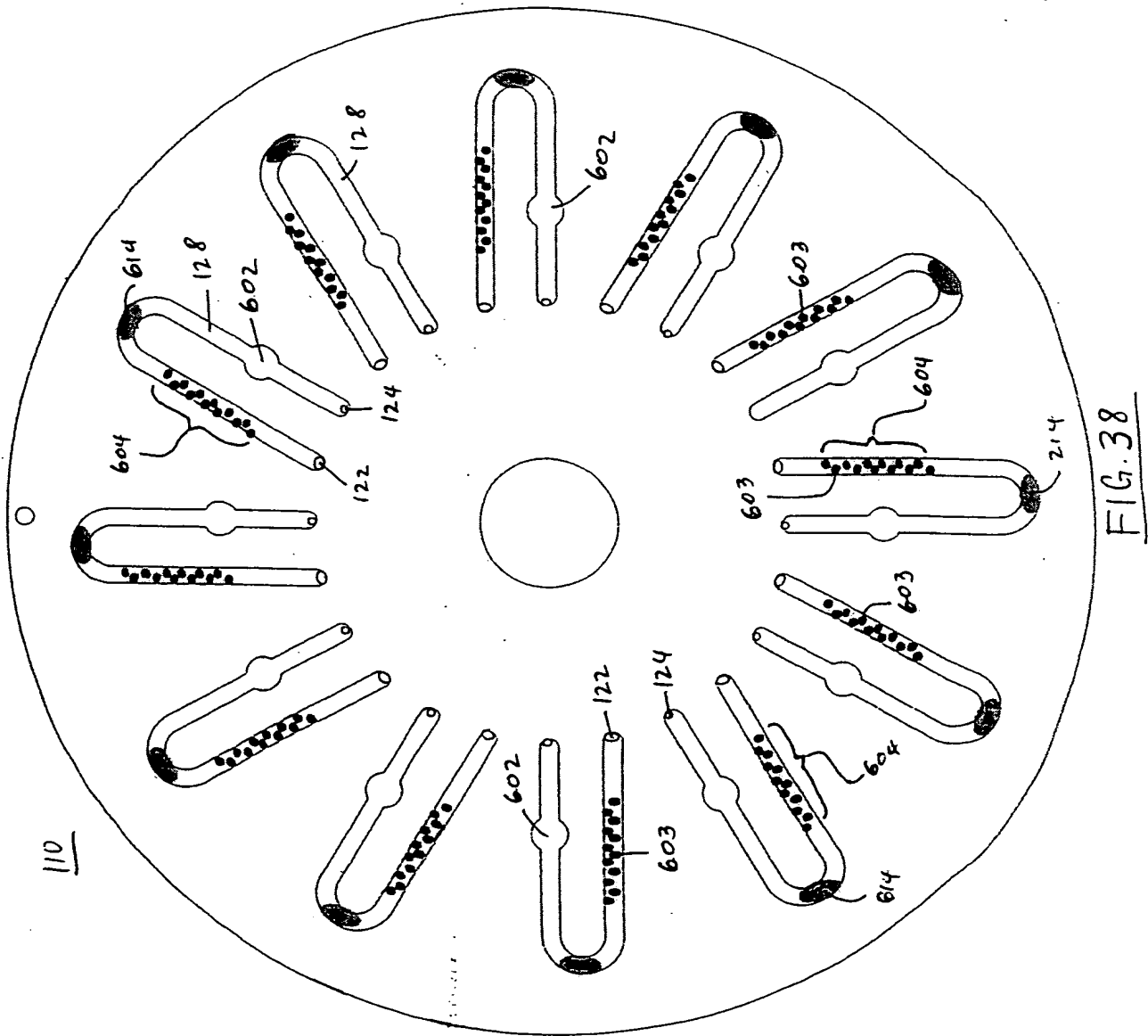
Typical Standard Curves for Non-Glycated Human Hemoglobin (HgAo) and Glycated Hemoglobin (HgA1c) on an Optical U-Channel Disk (BCD™)



N. Staimer
BTI

Immunoassay Conditions:
Immobilized Haptoglobin on Disk: 100 ng/mL
Dilution of Goat anti-Human Hemoglobin (HRP-labeled): 1 : 4000

Fig. 37



OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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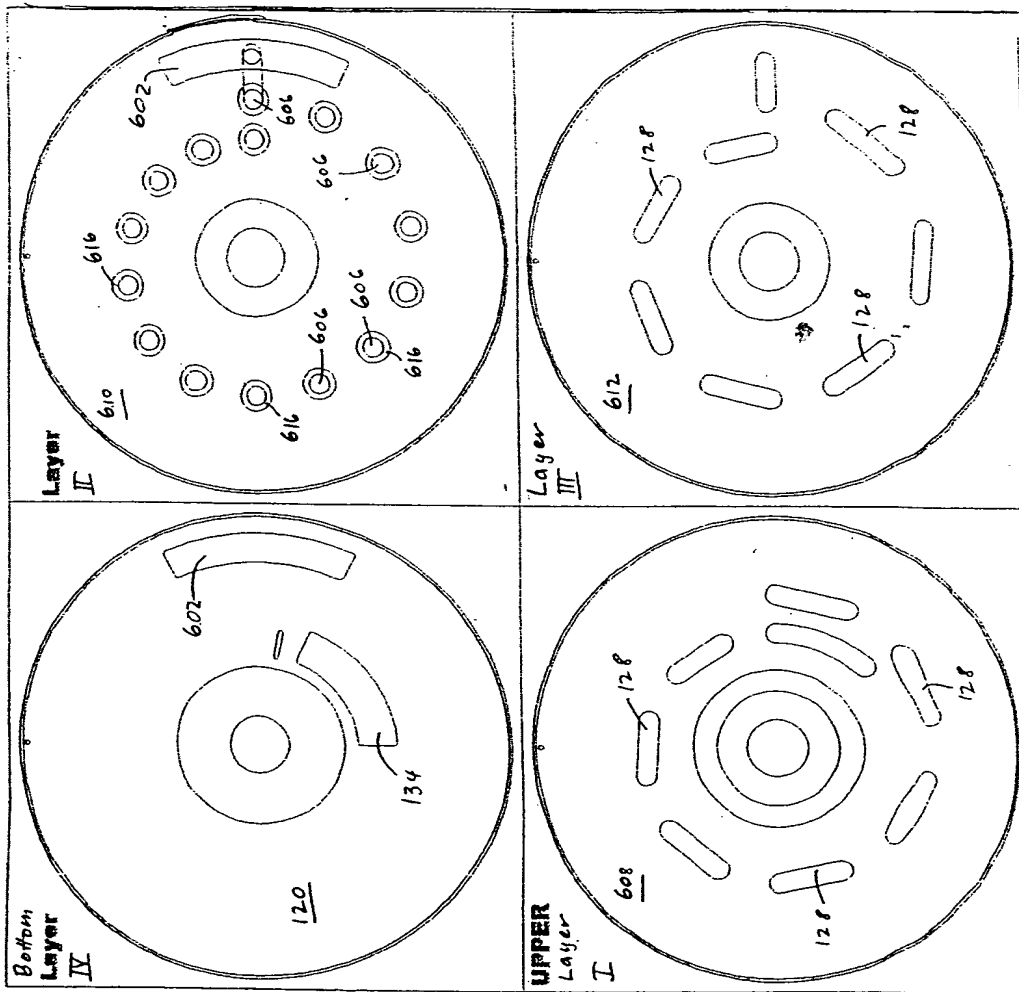


FIG. 39A

Disc Layer Assembly:
(Top to Bottom)
I. Upper channel layer
II. Middle membrane layer
III. Lower channel layer
IV. Bottom substrate layer

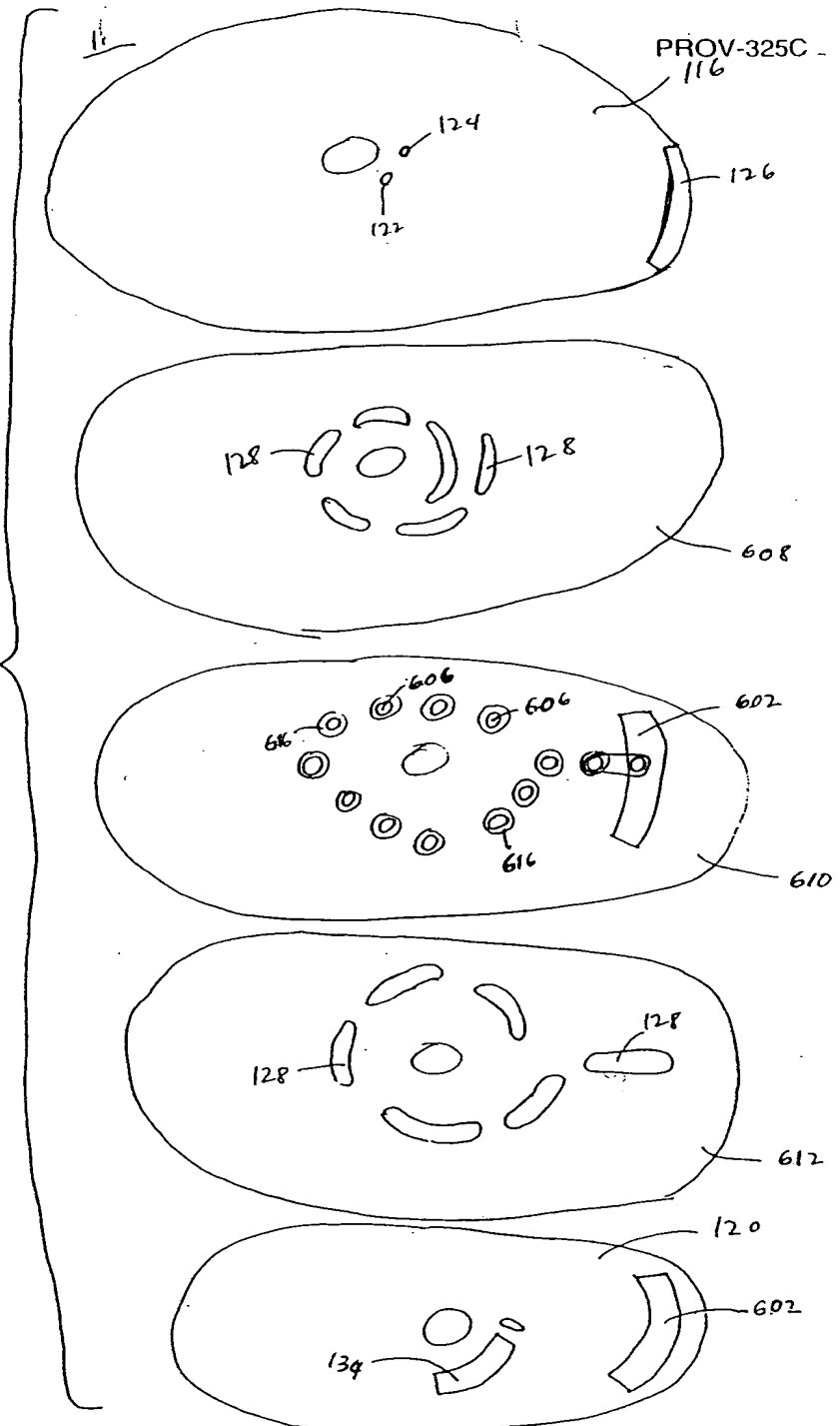
Note: A top most cap layer (116)
with the inlet and vent
ports is not shown.

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FIG. 39 B



OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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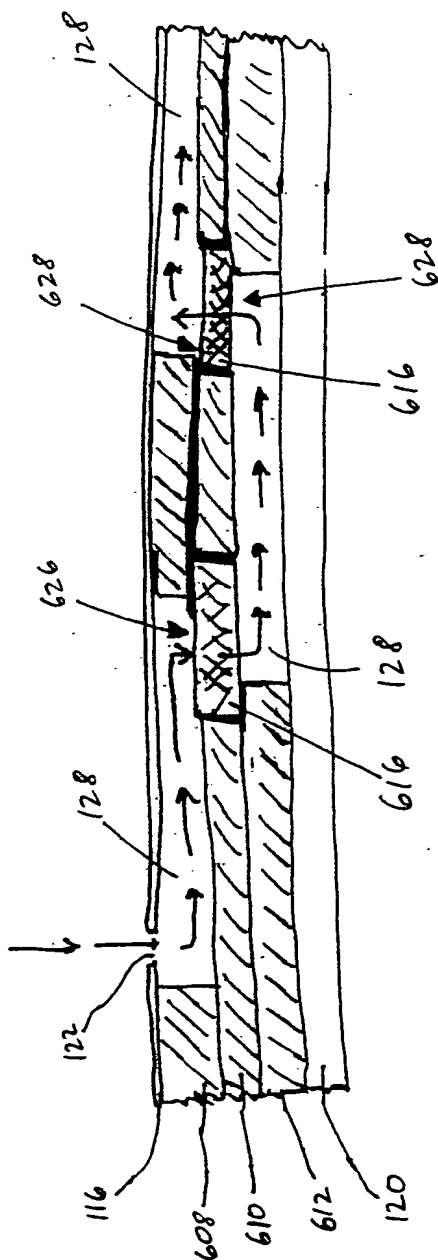
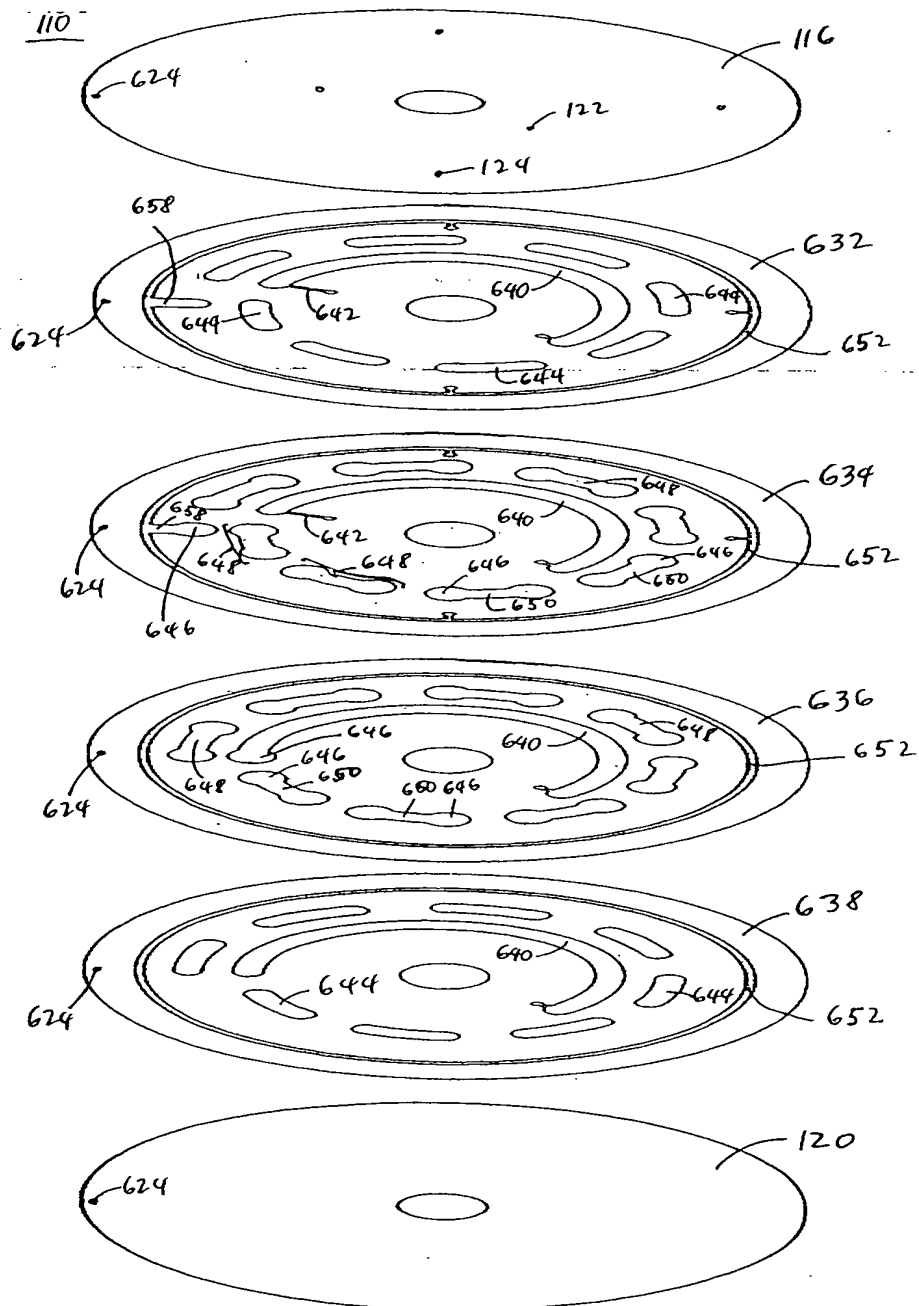


FIG. 39C

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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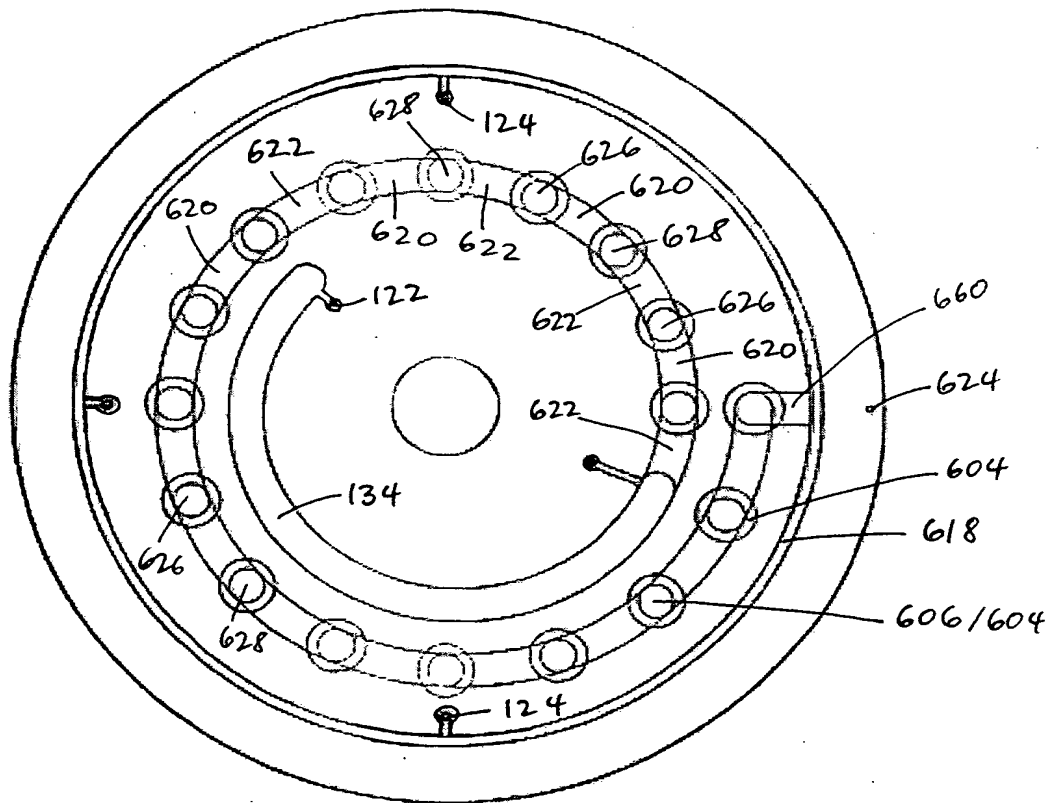


FIG. 40B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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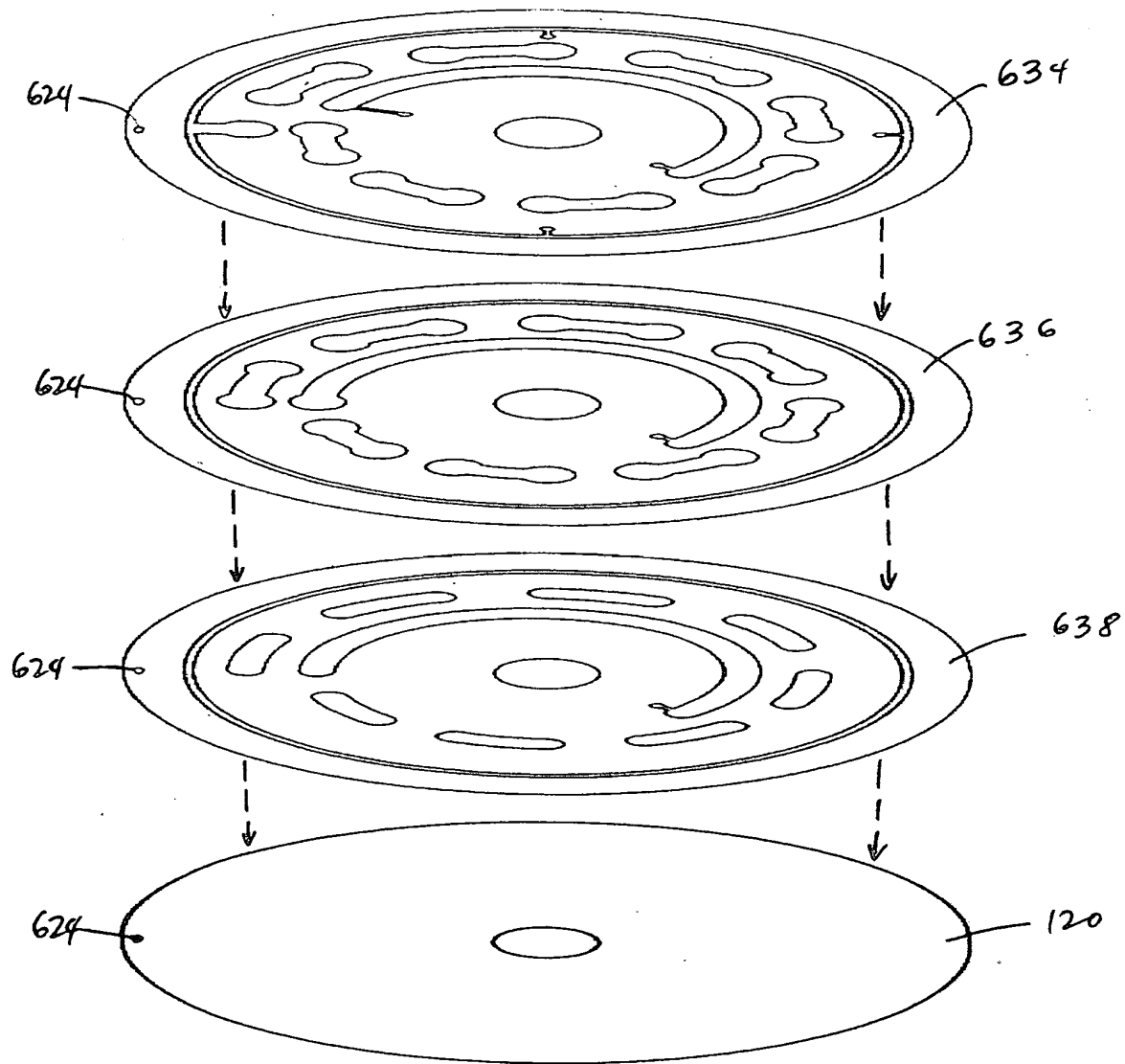


FIG. 41A

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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FIG. 41B

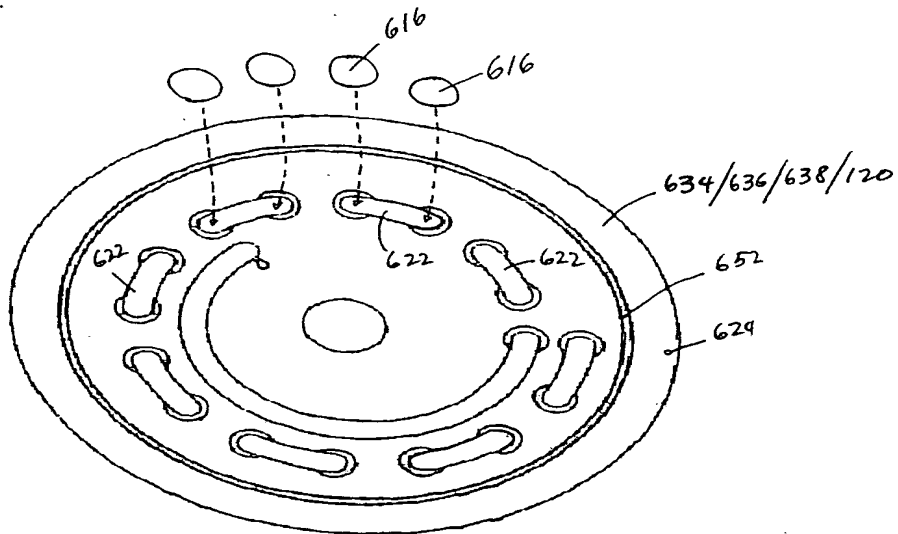
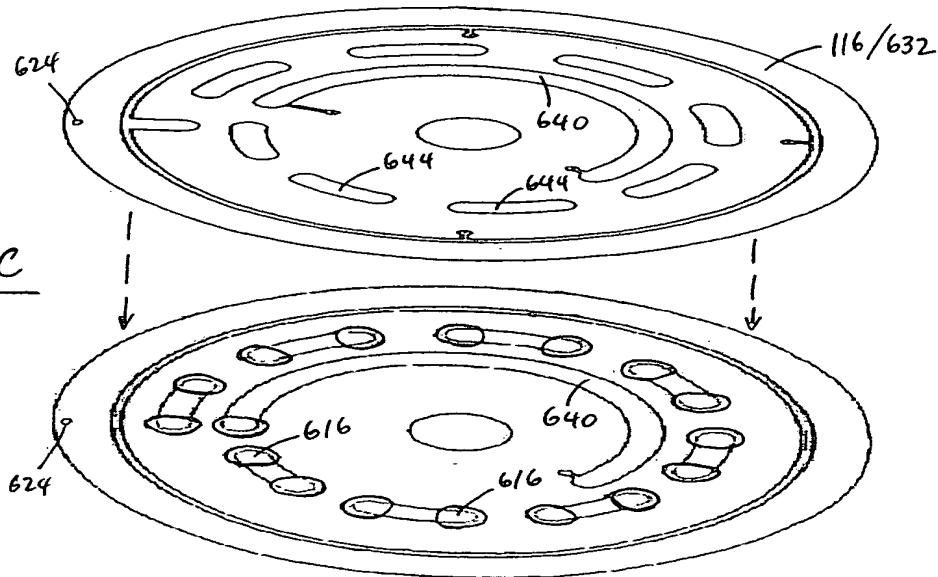


FIG. 41C



OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

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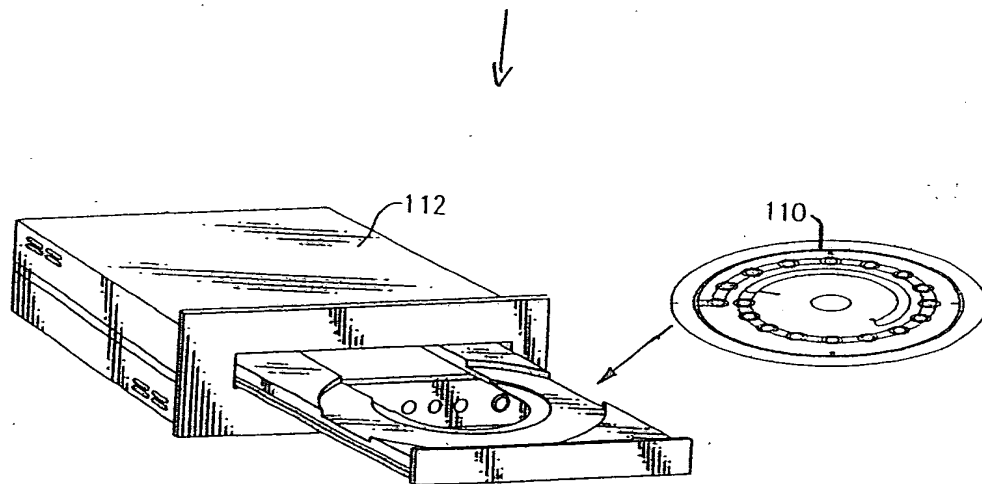
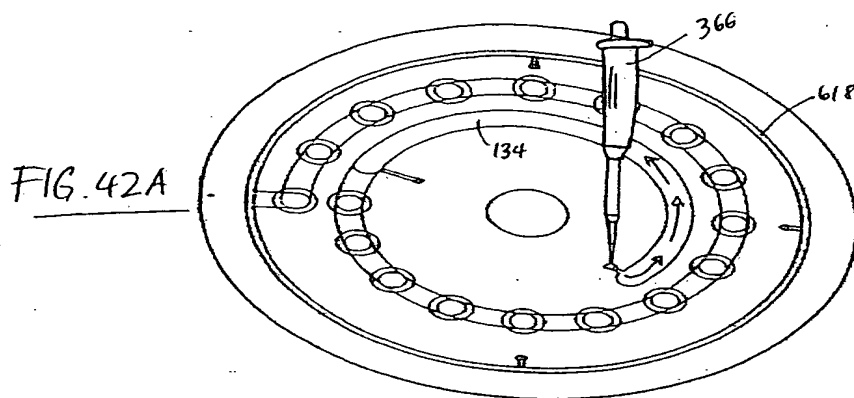
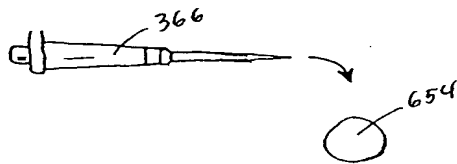


FIG. 42B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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Dry

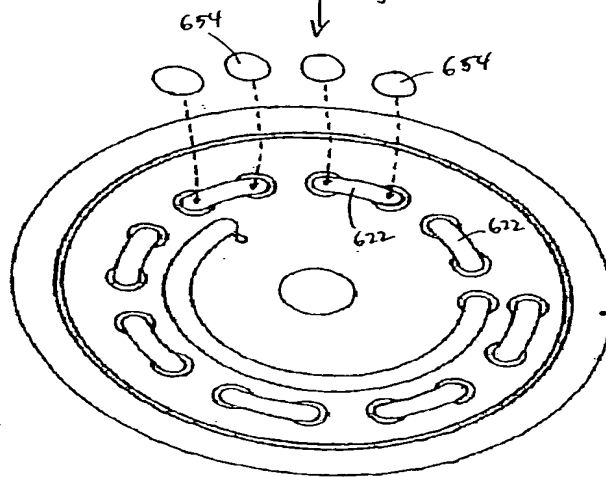


FIG. 43A

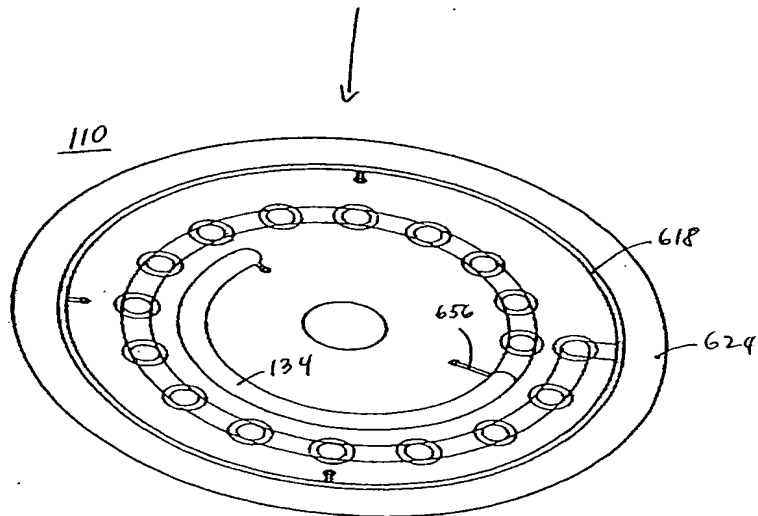


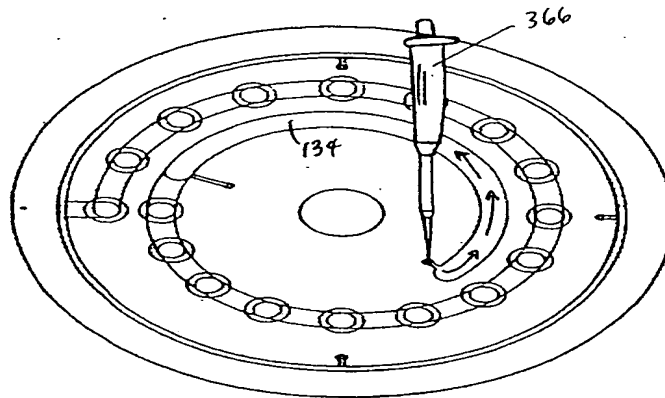
FIG. 43B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING ASSAYS

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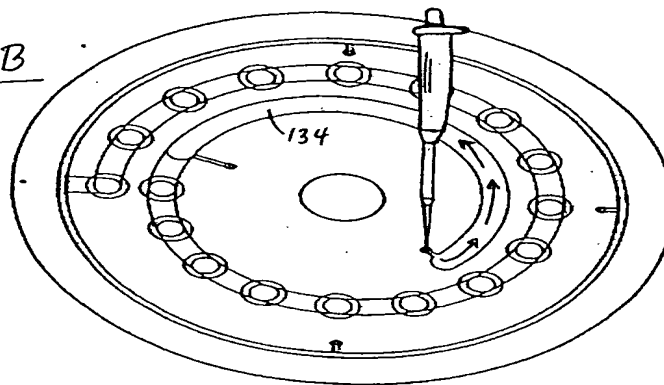
Appl. No.: Unknown Atty Docket: NAGACO.215A

FIG. 44A



↓ SPIN

FIG. 44B



↓ SPIN

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ASSAYS

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FIG. 44C

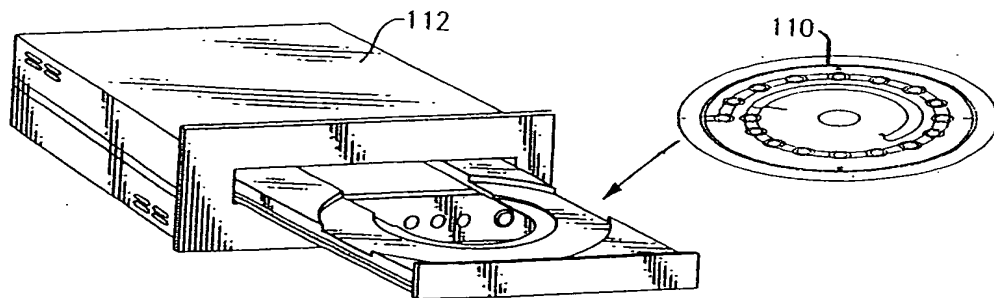
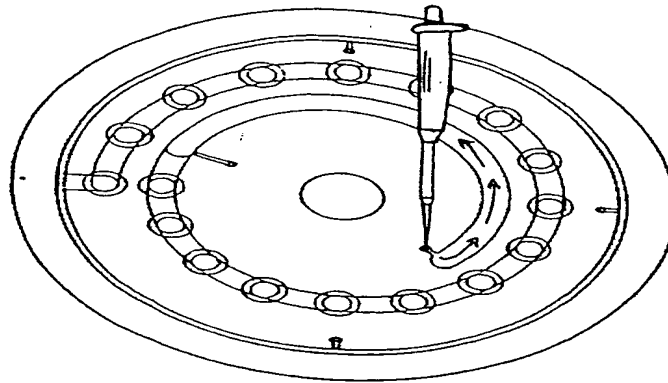


FIG. 44D

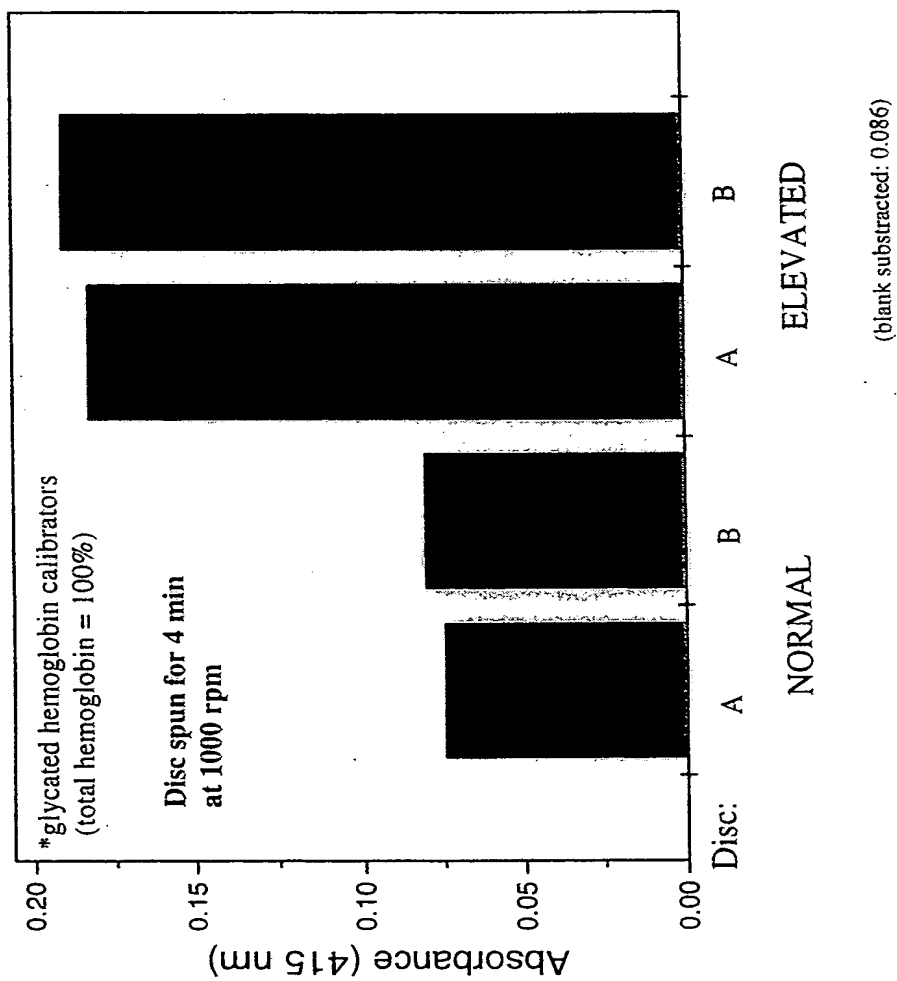


FIG. 45